

1991

University of Vermont, College of Medicine Bulletin

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The
University
of
Vermont

College of Medicine
Catalogue 1991-1992

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1991/92

**The University
of Vermont
COLLEGE OF
MEDICINE
Catalogue
1991-1992**

THE UNIVERSITY OF VERMONT
COLLEGE OF MEDICINE
FACULTY
STAFF
STUDENTS
ALUMNI
PARENTS
FRIENDS

Although its legal title is The University of Vermont and State Agricultural College, the University is known to its students and alumni as UVM. This popular abbreviation is derived from the Latin Universitas Viridis Montis, University of the Green Mountains.

The University of Vermont reserves the right to make changes in the course offerings, degree requirements, charges, and regulations and procedures contained herein as educational and financial considerations require, subject to and consistent with established procedures and authorizations for making such changes. Students at The University of Vermont are responsible for knowing and complying with all requirements for their respective degrees.

Mission

The University of Vermont and State Agricultural College blends the academic heritage of a private university with service missions in the land-grant tradition. Vermont's only university-level institution of higher education directs its resources toward the provision of excellence in instruction, innovation in research and scholarship, and public service to the citizens of the state, nation, and world. As befits a small but comprehensive university, the curricula in UVM's undergraduate, graduate, and professional programs integrate the principles of liberal education to enhance the personal, professional, and intellectual growth of its students. Through a widespread spirit of inquiry and investigative rigor, UVM's faculty, staff, and students participate in extending humankind's knowledge of self and environment. In its special partnership with the citizens of Vermont, The University of Vermont contributes analysis and definition to the human, social, technological, managerial, cultural, environmental, and educational issues of the State.

Notice of Nondiscrimination

Applicants for admission and employment, students, employees, sources of referral of applicants for admission and employment, and all unions or professional organizations holding collective bargaining or professional agreements with The University of Vermont are hereby notified that The University of Vermont does not discriminate on the basis of race, sex, sexual orientation, handicap, color, religion, age, national origin, or Vietnam Veteran status in admission or access to, or treatment or employment in, its programs and activities. In addition, it is the policy of the University that sexual harassment is unacceptable and will not be tolerated.

It is therefore the intent of the University to comply with the spirit and the letter of Titles VI and VII of the Civil Rights Act of 1964; Title IX of the Education Amendments of 1972; the Equal Pay Act of 1963; the Age Discrimination Act of 1975, Section 504 of the Rehabilitation Act of 1973; the Vermont Fair Employment Practice Act; and such other federal, state, and local nondiscrimination laws as may apply.

Inquiries or complaints concerning the University's compliance with the regulation implementing the above-referenced laws, or the affirmative action policies of the University should be made to The University of Vermont Executive Officer, Office of Affirmative Action, Equal Opportunity and Diversity Programs, Waterman Building, Burlington, Vermont, 05405, telephone (802) 656-3368; or the Office of the Vermont Attorney General, Pavilion Building, Montpelier, Vermont, 05602. Inquiries or complaints concerning the University's compliance with the regulations implementing Title VI of the Civil Rights Act of 1964, 34 CFR Part 100; Title IX of the Education Amendments, 34 CFR Part 106; the Age Discrimination Act of 1975, 45 CFR Part 90; or Section 504 of the Rehabilitation Act of 1973, 34 CFR Part 104, may also be made to the Assistant Secretary for Civil Rights, United States Department of Education, Washington, DC 20202, or to the Director, United States Department of Education, Office for Civil Rights, Region I, J.W. McCormack POCH, Boston, MA 02109.

FOR FURTHER INFORMATION CONTACT:

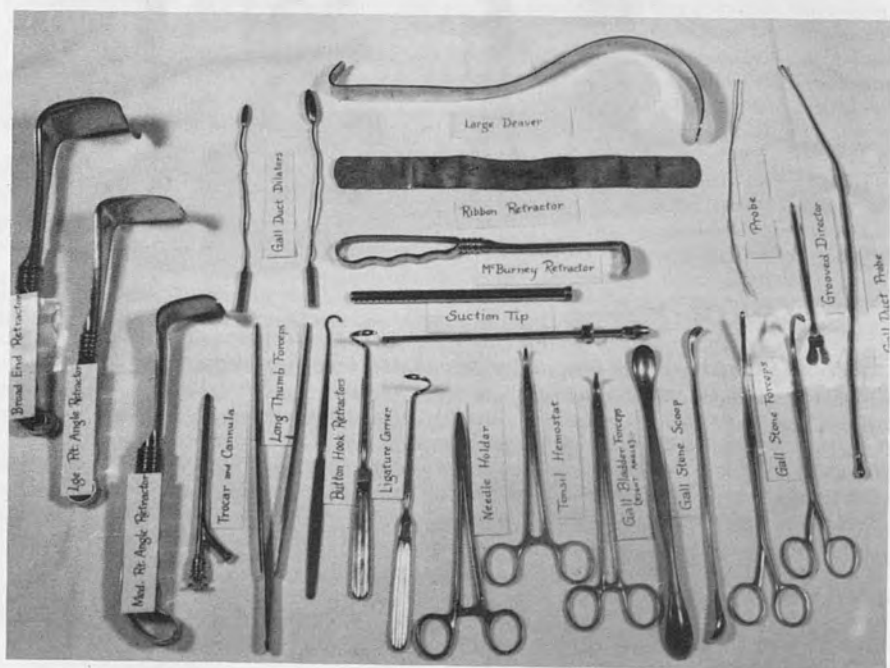
Office of the Dean
College of Medicine
Given Building
University of Vermont
Burlington, Vermont 05405-0063

On the cover: *The Green Mountains form a backdrop for Converse Hall, the A. Soule Medical Alumni Building and the Given Medical Building. Built in 1895, Converse was once the primary medical student residence. The complex is immediately adjacent to the Medical Center Hospital of Vermont.*



1873 Holmes Class Microscope

Designed by Dr. Oliver Wendell Holmes for use in the classroom, this hand-held microscope could be passed from student to student to view the material under discussion.



Examples of antique surgical instruments, many of which remain the standard design in use today.

**Biennial Catalogue of The University of Vermont
College of Medicine**

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UNIVERSITY OF VERMONT,
SESSION OF 1862

Medical Department.

PRINCIPLES AND PRACTICE OF MEDICINE.

Admit Mr. S. G. French.

Charles S. Allen, M. D.

*In the early years of the College of Medicine,
students were enrolled merely by purchasing cards
of admission (above) to various courses of lectures.*

General Information

History of the College of Medicine

The first General Assembly of the State of Vermont, convened in 1791, chartered The University of Vermont. Ira Allen, younger brother of Ethan Allen, had given 4,000 pounds sterling to help establish the institution. Instruction began in 1800 and the first class graduated four years later.

Meanwhile Dr. John Pomeroy, for many years the leading physician of Burlington, began around the turn of the century to take pupils. In 1804 he was appointed Lecturer in Chirurgery and Anatomy and, in 1809, Professor of Physics, Anatomy, and Surgery at the University. The position carried no stipend nor did the institution even provide a room in which to give instruction. By 1814 Pomeroy had so many students he could no longer accommodate them in his home and he consequently rented an empty store in which he lectured to a class of 12. His son, John N. Pomeroy (not a physician), added a course of lectures in chemistry in 1816 and to these the townspeople occasionally came out of interest in the demonstrations.

In 1822 a faculty of five professors including John Pomeroy and Nathan R. Smith was assembled and the trustees of The University of Vermont ruled that the president might "confer medical degrees on such persons as shall attend the medical lectures and are recommended by the medical professors and lecturers of the University." Dr. Smith's father, the more famous Dr. Nathan Smith and the founder of the medical colleges of Dartmouth, Bowdoin, and Yale, is said to have helped in the organization of the Vermont school.

In the early years of the nineteenth century only a small portion of medical education took place in the universities. The part-time doctor of colonial times had given way to the full-time professional physician but there was no legal regulation of the practice of medicine. Most degrees and certificates, if they were obtained at all, were granted by the medical societies after the candidate had served as an apprentice.

In the late 1820s a group of local physicians interested some philanthropically-minded residents of Burlington in buying land for a medical college building adjacent to the University campus and, in 1829, a two-story brick building was built. In 1828 Benjamin Lincoln, the grandson of the famous revolutionary general of the same name, was invited to Burlington to give a course of lectures in anatomy. Lincoln had a classical education at Bowdoin and had been apprenticed to the fashionable and distinguished Dr. George Shattuck of Boston. Rustic and educationally unprepared as most of the Vermont students were, they were evidently entranced by Dr. Lincoln's beautiful demonstrations and the clarity of his presentations. He was offered the chair of anatomy and although the Universities of Maryland and Bowdoin both solicited him he chose Vermont, perhaps because he "hoped to realize . . . his organic remains from old formations." Lincoln soon became the leading light of the school which flourished for a few years. Unfortunately, he became ill and in 1834 went back to his home in Maine to die. There were now two other medical schools in the state and an economic depression was developing. In 1836, after having granted 116 degrees in course and 24 honorary ones, the College of Medicine closed its doors.

There was a lapse until 1853 when after many tribulations (most of them financial) Drs. W. S. Thayer of Northfield and Walter Carpenter of Randolph succeeded in reorganizing the medical college. Subscriptions were solicited from the medical professors and the Burlington townspeople and Mrs. Thayer held a "fair" which netted \$450. The University provided a building (the same one which had been used by Dr. Lincoln and which is still in use, although for different purposes) on the academic campus. In spite of competition from the schools in Woodstock and Castleton, Vermont, and Hanover, New Hampshire, courses were started and the school remained viable largely through the efforts and personal and professional distinction of Drs. Thayer and Carpenter, both of whom served successively as deans. The average student attendance from 1859 to 1878 was 65. Then, under the deanship of Dr. A. P. Grinnell,

there was a period of rapid expansion reaching a high tide in 1884 when 101 young men were graduated in medicine.

The University of Vermont College of Medicine was then (as were most others of the day) essentially a proprietary institution. The University provided some amenities, these being to a considerable extent responsible for the success with which the College outlasted many of its competitors. The medical faculty was, however, a closed corporation collecting its own fees and providing its own administration. That this was not an ideal situation was apparent to the profession. In fact, it was a movement toward reform of medical education proposed by the Vermont State Medical Society in the 1840s which led to a national convention which later evolved into the American Medical Association. In 1899 the trustees of the University (although as yet only dimly aware of the enormous responsibility, financial and otherwise, which this was to entail) took over complete control of the College of Medicine.

In 1879 the Mary Fletcher Hospital was built in Burlington, and, in 1924, the DeGoesbriand Memorial Hospital began to admit patients. Both became centers of clinical instruction and, in 1967, the two institutions merged to form the Medical Center Hospital of Vermont.

During the post-World War II deanship of Dr. William E. Brown, the faculty of the College of Medicine began a period of exponential growth, both in numbers and prestige. Under subsequent Deans George A. Wolf, Jr., Robert J. Slater, Edward C. Andrews, Jr., and William H. Luginbuhl, the student body was expanded, biomedical research began to flourish, and the material resources of the institution increased, culminating in the construction of a new medical college complex in 1968.

Accreditation

The University of Vermont is accredited by the New England Association of Schools and Colleges, Inc. The College of Medicine is accredited by the Liaison Committee on Medical Education, American Medical Association — Association of American Medical Colleges.

Professional Responsibility

The College of Medicine of The University of Vermont endorses the following statement of the AAMC Committee on AIDS and the Academic Medical Center.

"Medical students, residents, and faculty have a fundamental responsibility to provide care to all patients assigned to them regardless of diagnosis. A failure to accept this responsibility violates a basic tenet of the medical profession — to place the patient's interest and welfare first.

Faculty members have a special responsibility to model the professional behavior and attitudes expected of physicians in training in their own willingness to provide competent, sensitive, and compassionate care to all patients."

Community Diversity

The Faculty of the College of Medicine recognizes and values the diversity of the members of the community of The University of Vermont and of the people whom we serve through research, teaching, and patient care. We affirm our commitment to creating and maintaining a community which supports and encourages respect for every individual.

The Faculty of the College of Medicine deplores actions that intimidate, humiliate, or demean any person or group. We particularly condemn actions manifesting attitudes of racism, sexism, or intolerance based on religious belief, ethnic origin, sexual orientation, age, veteran status, or disability. We consider such actions to represent both poor judgment and lack of sensitivity to others. We encourage our faculty, students, and staff to confront and actively protest such actions when they occur. We invite our faculty, students, and staff to encourage the growth of a community which values the unique strengths and contributions of every one of its members. (*Adopted by the Faculty of the College of Medicine on September 21, 1990.*)

Bylaws of the Faculty of the College of Medicine

The Bylaws and Rules and Regulations of the Faculty of the College of Medicine are contained in a separate publication available in the Office of the Dean in the Given Building.

Student Information

Information on admission and curriculum, plus regulations and procedures pertaining to student performance and the rights and responsibilities of students, are explained in detail in the College of Medicine's *Admissions Bulletin* and

Student Information

Information on admission and curriculum, plus regulations and procedures pertaining to student performance and the rights and responsibilities of students, are explained in detail in the College of Medicine's *Admissions Bulletin* and *Student Handbook* and *The Cat's Tale*, student's guide to The University of Vermont. Students are responsible for knowledge and observance of these regulations and procedures.

Undergraduate Medical Education Program

The curriculum consists of three parts, spanning a period of 45 months from admission to the granting of the M.D. degree.

Basic Science Core

The first part, the Basic Science Core, consists of one and one-half years of instruction in the sciences that undergird clinical medicine — anatomy, biochemistry, medical microbiology, pathology, pharmacology, physiology, and neurosciences. In addition, seminars in human behavior and in medical sexuality provide students with an awareness of social, cultural, and psychological factors affecting health and illness.

A unique course within the Basic Science Core is the Basic Clerkship which begins during the first week of medical school. This educational experience prepares the student for the study of medicine by the study of patients. The course includes training in physical examination skills, and technical skills like drawing blood and performing basic cardiac resuscitation.

Clinical Science Core

The second phase of the curriculum is called the Clinical Science Core, a 12-month period devoted to the clinical disciplines of medicine, surgery, obstetrics and gynecology, pediatrics, and psychiatry. During this year, students work with and under the supervision of house staff and attending physicians at the Medical Center Hospital of Vermont in Burlington, the Maine Medical Center in Portland, Maine, and the Champlain Valley Physicians' Hospital in nearby Plattsburgh, New York. Most rotations include training in both outpatient office and in hospital settings.

At the midpoint in the Clinical Core there is a two-week summer recess.



Advanced Basic Science Core

At the completion of the first year of clinical work and preceding the Senior Selective Program, students participate in a month-long period of classroom study which includes both required and elective courses. Included in this segment are course offerings in epidemiology, clinical pharmacology, clinical nutrition, medical genetics, laboratory medicine, clinical neuroscience, geriatric medicine, preventive cardiology, issues in health economics and policy, and medical ethics.

Senior Selective Program

The final portion of the curriculum, the Senior Selective Program, extends through the remaining one and one-half years prior to graduation. This period is divided into 15 rotations of one-month duration each. This program enables students to select a course of study best suited to their individual educational interests and career objectives.

During the Senior Selective Program all students must include in their schedules a number of required clinical experiences as well as various elective rotations. Principal among the required rotations are two months spent as an "acting intern." Here students accept, under supervision, primary responsibility for the total care of a number of hospitalized patients. Graduated responsibility, based upon audited performance, is a central theme of our clinical instruction.

A second requirement during the Senior Selective Program is a month-long preceptorship in family practice, which is considered an essential discipline in the training of our students. Finally, a requirement for a flexible preceptorship provides the opportunity for students to explore a discipline of their choice in a community setting.

The elective rotations may include approved learning experiences elsewhere in the United States or abroad. Many students see this as an opportunity to work and study in an urban setting or at another medical school or foreign medical center. Students should anticipate spending variable periods of time away from Burlington in the course of pursuing their required training. Faculty advisors counsel each student on an individual basis throughout the planning and course of this program and in anticipation of later graduate education. Although the majority of students elect to pursue a clinical selective program, students so desiring may commit their program to study in one of the basic sciences. While these

programs are individualized, it is expected that related graduate study and research will form the basis for each. Following acceptance into the medical college, qualified students may simultaneously enroll in the Graduate College for a Master of Science or Ph.D. program.

Curriculum

Basic Science Core

Knowledge common to all medical practice.
57 weeks

Course	Hours
Biochemistry	109
Gross Anatomy	181
Microscopic Anatomy	86
Human Behavior	28
Basic Clerkship	147
Physiology	114
Neuroscience	114
Microbiology	100
Pathology	271
Pharmacology	118
Medical Sexuality	26

Clinical Core

Knowledge, behavior, and clinical skills
common to all medical practice.
48 weeks

Clerkship	Months
Medicine	3
Surgery	3
Pediatrics	2
Psychiatry	2
Obstetrics and Gynecology	2

Advanced Basic Science Core

A one-month period of classes with required courses in genetics and epidemiology, plus a variety of electives.

Senior Selective Program

Tailored to individual interests and career goals.
61 weeks

Rotation	Months
Acting Internships	2
Family Practice Preceptorship	1
Flexible Community Preceptorship	1
Electives	11

The Combined M.D.-Ph.D. Program

Qualified students specifically interested in a career which will integrate basic research and clinical care may elect to pursue a combined curriculum leading to both an M.D. degree and a Ph.D. degree. Students must enroll in the Graduate College to pursue a Ph.D. degree program in one of the basic medical sciences concurrent with enrollment in the College of Medicine. The following departments offer this degree option: Anatomy and Neurobiology, Biochemistry, Microbiology, Pathology, Pharmacology, and Physiology and Biophysics.

Satisfactory performance in the Medical College Admission Test (MCAT) examination may be accepted as a substitute for Graduate Record Examination (GRE) scores that generally are required for admission to the Graduate College programs. Although curricular prerequisites for admission to the Graduate College and to the College of Medicine are closely comparable, additional preparatory course work may be required for students who wish to enroll in the Graduate College while they are still enrolled in the College of Medicine. Credit for some courses taken in the medical curriculum can be used for Graduate College credit, providing that the performance in the medical school course is indicated by an appropriate letter grade. Course, dissertation, and degree requirements are outlined by department in the Graduate College catalogue for each graduate program in the basic medical sciences.

It is estimated that a period of six years will be necessary (as a minimum) for completion of a program leading to the combined M.D.-Ph.D. degree. In general, graduate training would begin the summer of the first year. Following completion of the Clinical Core program and prior to entering the Senior Selective Program, the student would devote full time to completing the additional course, laboratory, and dissertation work for the Ph.D. degree.

Graduate Medical Education

Because of the important role played by house officers in the education of medical students, and reflecting the relationship between the Medical Center Hospital of Vermont and The University of Vermont, the responsibility for the overall direction of residency training programs rests with a Graduate Medical Education Committee. This group consists of representatives

from the clinical departments offering a house officer training program, a representative from the Dean's Office, a representative from the MCHV, and a resident representative by the house staff. Direct responsibility for the administration of our training programs rests with the department and division heads who are the training program directors. Most training programs accept residents via the National Resident Matching Programs.

Residency programs are offered in anesthesiology, dentistry, family practice, internal medicine, neurological surgery, neurology, obstetrics and gynecology, orthopaedic surgery, otolaryngology, pathology, pediatrics, psychiatry, radiology, surgery, and urology.

Continuing Medical Education

The Office of Continuing Medical Education has as its overall goal the development and implementation of programs for doctors in Vermont and surrounding regions, particularly upstate New York. We assist physicians in developing programs which will best serve their continuing medical education needs. We provide support in the areas of planning, coordinating, and evaluation of these programs.

Programs are offered at a variety of different levels:

1. Local programs are made available to all interested physicians and hospitals so that practitioners can meet their continuing medical education requirements without undue travel time or time away from practice. Category I credit is approved for most of the Grand Rounds at the Medical Center Hospital of Vermont.
2. Regional programs are held at selected sites, and include such programs as our annual Lipid Conference, Update in Hypertension and Renal Disease, and Geriatric Problems in Office Practice. These programs usually are of one day's duration and include faculty from the University and others who present an in-depth discussion of a specific topic within a specialty area.

3. Programs of longer duration are conducted at the University in Burlington and throughout the state by specialty groups such as obstetrics and gynecology, pediatrics, gastroenterology, or orthopaedic surgery. Such programs are designed to bring practitioners in these specialties the latest information regarding office and hospital management of a variety of complex conditions. Individual programs (mini-residencies) may be arranged in most departments through our Visiting Practitioner Program.

Our office remains dedicated to offering those quality medical education programs that will best serve all physicians in our region and state. Please call 656-2292 for a complete calendar.

Research

The College of Medicine has an extremely broad based, diverse research program for an institution of its size. This reflects the view, held by faculty and administration alike, that ongoing research is essential for continued academic viability. Each basic science faculty member and most clinical science faculty conduct their own research project supported in large part by grants and contracts from the public and private sector. In addition, multidisciplinary collaborative projects are widespread. The latter are enhanced by multiple graduate degree programs, several program projects, a clinical research center, and several core facilities within the institution. This has resulted in a research intensity and reputation out of proportion to the size of the college. Research is an integral part of the environment for students and faculty alike. It is found at all levels of scientific endeavor ranging from molecular biology to health care delivery systems. Interested students have the opportunity to directly participate in research of their choice through summer research fellowships and research-oriented senior major programs.

Facilities

In 1968 the third phase of a \$12 million expansion program was dedicated, completing a decade of planning and construction accomplished through alumni support, private philanthropy, and federal funds. Thus, for the first time, the teaching and research activities of the College of Medicine were brought together under one roof.

First to be completed in this ambitious program was the Medical Alumni Building. Dedicated in 1959, this structure was named to honor the loyalty of the medical alumni whose vision and support provided the impetus for the building program.

The Medical Alumni Building, now called the A. Bradley Soule Medical Alumni Building, is linked to the Given Medical Building by the two-story Charles A. Dana Medical Library.

Largest of the three buildings is the Given Medical Building. Its 236,000 square feet encompass the majority of the teaching and research space of the College of Medicine. This unit also contains the 280-seat Carpenter Auditorium, a student lounge, the office of the dean, and a cafeteria.

In the spring of 1973, the \$3.2 million Rowell Nursing and Allied Health Sciences Building was dedicated. This facility connected to the Given Medical Building provides approximately 70,000 square feet of classroom and office space in support of the University's expanding program in nursing and allied health sciences.

More recently, plans are to break ground for the Stafford Research Building to be located adjacent to the Health Science Complex, due to be completed in 1993. Costing \$12 million to construct, the Stafford Building will house our Musculoskeletal Center as well as the Department of Microbiology and Molecular Genetics. Space will be provided not only for research but also for modern teaching laboratories. Plans also are to occupy a new satellite research facility in nearby Colchester the summer of 1991. This facility will contain programs in Biochemistry, Pathology, Pharmacology, and Physiology and Biophysics.

The Charles A. Dana Medical Library

Interim Medical Librarian: Robert J. Sekerak, M.L.S.

The Medical Library is located in the center of the College of Medicine complex, between the A. Bradley Soule Medical Alumni and the Given Medical Buildings. We subscribe to more than 1,600 journal titles and have approximately 90,000 volumes in the areas of biomedicine, nursing, and allied health which are housed on two floors. The Historical Collection contains 1,500 books, as well as pamphlets and medical instruments, relating especially to medicine in Vermont. The Dana Audiovisual Department,

located in the Rowell Building, maintains a collection of over 3,000 media titles in a variety of formats, including films, videocassettes, slides, videodiscs, and computer software, and provides facilities for their use. Users have open access to the collections.

All books, periodicals, and audiovisual materials are listed in LUIS, the Library's online catalogue. LUIS is available from terminals throughout the Library and may also be accessed from terminals in offices or from off-campus locations. The automated library system also makes check-out of library materials fast and easy.

Individual and group study carrels are located on the lower floor. Additional space for readers is provided on the main floor reading room. Microcomputers for student use are available in the Library and in the Audiovisual Department.

The Library is open from 7:30 a.m. to 12 midnight, Monday through Thursday; 7:30 a.m. to 11:00 p.m. on Friday; 8:00 a.m. to 11:00 p.m. on Saturday; and 10:00 a.m. to 12 midnight on Sunday.

Three self-service, coin or card-operated photocopiers are available at all times, as well as staffed photocopy service between the hours of 8:30 a.m. and 4:30 p.m., Monday through Friday. Speedy transmission of interlibrary loan requests makes readily available the resources of major medical libraries in the Regional Medical Library Network as well as those of the National Library of Medicine.

Reference service includes an online, interactive literature search capability. Relevant biomedical and related information is searched and retrieved from a large number of computerized databases. Dial-up end user databases are available in the Library's Automated Reference Center; patrons can also search a variety of CD-ROM databases.

Library orientation and bibliographic instruction regarding print and automated resources are provided by the Reference Department.

Hospitals

For a medical school, the teaching hospital is the keystone that supports the clinical education of the medical student and graduate physician alike. Here they observe and participate in the care of the sick under the supervision of the clinical faculty who exemplify the highest skills in the science and art of medicine.

Medical Center Hospital of Vermont

The merger of the two former teaching hospitals of The University of Vermont College of Medicine, the DeGoesbriand Memorial and the Mary Fletcher, to form the Medical Center Hospital of Vermont (MCHV) brought into existence in Burlington one of the larger and more comprehensive general hospitals in New England. This complex exists as an efficient and cohesive health care delivery system which provides both the standard and exceptional medical services normally available only in larger metropolitan centers.

The role of the MCHV is unique in the northern New England region. Not only is it the teaching hospital of the UVM College of Medicine and a referral center for Vermont, upstate New York, and New Hampshire, but it is also the major community hospital for the 125,000 inhabitants of the Greater Burlington area. A balance exists, therefore, between patients with complicated and rare diseases and those with conditions that are prevalent in any community, a balance that provides every medical student and resident at the Medical Center Hospital with medical experiences in breadth as well as depth.

Each year nearly 18,000 patients are admitted and over 35,000 patients are treated in the emergency room of the hospital. The MCHV provides 482 beds, open and staffed. Almost all of the more than 400 physicians on the attending staff hold full- or part-time faculty appointments in the College of Medicine. Some 200 resident physicians and fellows participate in the hospital's 15 postdoctoral training programs.

Within the units of the MCHV are such special facilities as MRI, two CT scanners, diagnostic ultrasound and nuclear scanning, cobalt and linear accelerator for radiation therapy, remotely controlled cinefluorographic units for diagnosis, as well as more conventional equipment. A nationally-recognized cardiology program is deeply involved in heart attack research. A Clinical Research Center and a full Renal Dialysis and Transplant Unit are in operation.

Three discrete areas — the Surgical Intensive Care Unit, the Medical Intensive Care Unit, and the Intensive Care Nursery — care for critically ill and injured adults and infants, many of whom are referrals transported from throughout the region by an outstanding volunteer Emergency Medical Service and U.S. Air Guard helicopter when necessary.

Regionalization of health care is increasingly emphasized by the hospital. For example, broad regional outreach throughout the area has been furthered by extension of the professional expertise and resources of the hospital's perinatal services and its Renal Dialysis and Transplant Unit, with special coordination between this center and the Dartmouth-Hitchcock complex at Hanover, New Hampshire.

A \$50 million redevelopment project was completed in the spring of 1985, enabling the hospital to consolidate services and provide patient care in appropriate facilities. Included in the seven-story addition are a new radiology and nuclear medicine department, cardiology laboratory, emergency department, surgical suite with 13 operating rooms and recovery room, two 16-bed critical care units, and two 45-bed nursing units. The Intensive Care Nursery was increased to 20 beds and relocated to new facilities in January 1989.

Maine Medical Center

In 1979 an affiliation was established between the UVM College of Medicine and the Maine Medical Center in Portland, thus adding the facilities of this prestigious 598-bed hospital as a site for clinical instruction of our medical students.

Committed since its founding to education as well as to patient care and clinical and basic research, the Maine Medical Center provides sophisticated as well as basic care in all fields of medicine and surgery. MMC has always been noted for the humanism of its bedside nursing.

Teaching is provided by members of the medical staff who hold faculty appointments at the College of Medicine. This is supplemented on a regular basis by members of the faculty from Burlington.

Housing for UVM medical students is available in nearby Chisholm and Thomas Houses. Previously private homes, these attractive buildings have been renovated and refurbished to comfortably accommodate our students.

Other Hospitals

Several departments in the College of Medicine also utilize the Fanny Allen Hospital in Winoski Park and the Champlain Valley Physicians' Hospital in Plattsburgh, New York, for the training of medical students and house officers.

The Vermont Regional Cancer Center

Director: Roger S. Foster, Jr., M.D.

The Vermont Regional Cancer Center (VRCC) is a component of the College of Medicine which specializes in cancer research, prevention, education, and state-of-the-art medical care. It serves most of Vermont and northern New York State. Its 70 members and associate members hold faculty appointments in academic departments throughout the University.

The Center has been designated by the National Cancer Institute (NCI) as a clinical cancer center and is a recipient of an NCI core grant which provides the administrative and scientific framework upon which its scientific programs are built. These major programs are cancer control research, clinical research, drug development, genetic toxicology, and growth control/signal transduction.

The Center initiates and coordinates cancer research throughout the University. It serves an educational role in cancer-related matters for undergraduate and postgraduate teaching and, through its outreach program, for physicians and other health professionals. It also serves as an important treatment and consultative resource for patients with cancer through its interaction with clinical departments in the College of Medicine.

Office of Health Promotion Research

Director: Roger H. Secker-Walker, M.B., F.R.C.P.

Developed from the Vermont Lung Center, this office is actively involved in research in health education. Our programs are multidisciplinary and involve the efforts of faculty in several colleges and departments at UVM, as well as investigators in other universities in the United States and Canada. Through active collaboration with the Vermont Regional Cancer Center, the Office of Health Promotion conducts the cancer control research efforts of the Cancer Center.

Our current research efforts, all of which are funded by the National Institutes of Health, address smoking prevention through school programs and mass media, smoking cessation during obstetric care, and smoking cessation, especially for women, in two entire counties. We are also undertaking a large community-based research project to promote breast cancer screening. In addition, we have recently been

funded to undertake an AIDS prevention project in several small cities.

These projects, which usually take from three to five years to complete, are rigorously evaluated and are being undertaken in Vermont, New Hampshire, New York, Montana, and Florida. Our major research interests include community organization and coalition building, and the use of mass media, as methods for disseminating health education, modeling healthy lifestyles and encouraging appropriate changes in people's health-related behavior.

Medical Biostatistics/Biometry Facility

Director: Taka Ashikaga, Ph.D.

The Medical Biostatistics/Biometry Facility group provides a comprehensive program of computing and statistical support for clinical, epidemiologic, and basic science research. The unit is structured to provide assistance in experimental design, sample size determination, survey sampling, questionnaire development, interviewer training, data acquisition, data management and processing, statistical analysis, interpretation, and publication of research results.

Our faculty are affiliated with the UVM Statistics Program which offers both undergraduate and graduate opportunities. Undergraduate students may take advantage of a premedical option that provides substantive experience with medical research issues as well as contact with medical school researchers. An M.S. degree in Biostatistics with emphasis on medical applications is also available. Many medical students have used the resources of the Biometry Facility for designing and analyzing the data from their senior research projects.

The University's large mainframe VAX 8600 and IBM 4381-II computers are accessible from a number of terminals. A VAX 750 in the Clinical Research Center is also available for use. Available software includes BMDP (Biomedical Computer Programs), SAS (Statistical Analysis System), SPSS-X (Statistical Package for the Social Sciences), IMSL (International Mathematical and Statistical Library), and a variety of other special purpose routines. A microcomputer network is also available for the purpose of computer assisted telephone interviewing, data entry, editing, and analyzing medium-sized data sets.

Central Animal Facility

Director: Ernest M. Reit, D.V.M., Ph.D.

The Central Animal Facility is equipped to care for a variety of mammalian species, ranging from small rodents to primates and larger domestic herbivores, under regular and certain special housing conditions. It is available to all investigators in the College on a fee-for-service basis. We maintain an inventory of veterinary drugs, advise on preparation of research grants involving animals, and provide consultation and instruction on the prevention, diagnosis, and treatment of illness or injury as well as in methods of restraint, analgesia, anesthesia, and euthanasia.

In addition to the Central Animal Facility, the College's laboratory animal care resources include one small, independently-operated satellite facility in the Department of Pathology which houses small rodents and five special laboratories which house either small rodents or submammalian vertebrates. These have regular access to the services and personnel of the Central Animal Facility. All of these animal facilities are inspected semi-annually by members of the University's Animal Care and Use Committee and have been accredited by The American Association for Accreditation of Laboratory Animal Care, signifying that they conform to the standards for care, use, and humane treatment of laboratory animals as set forth in the Animal Welfare Act (PL 89-544, as amended), the DHHS Guide for the Care and Use of Laboratory Animals, the NIH Principles for Use of Animals included therein, and other applicable laws and regulations.

Medical Photography

Director: Wing M. Woon

Medical Photography has a full-time staff whose services are available to all departments. Quality, productivity, and interest are our daily work routine. Medical Photography encompasses photomicrography, photomacrography, clinical, surgical, patient, medical research photography, high quality custom printing of black and white and color prints, and all slide production. A medical illustrator is also available to help physicians and researchers in the graphic communication of medicine. This includes anatomical drawings, surgical procedures, and conceptualized and technical illustrations used in exhibits, presentations, and publications. Modern audiovisual equipment is also available for teaching purposes.

Organizations

The UVM Medical Alumni Association and Its Century Club

The UVM Medical Alumni Association, whose membership is comprised of all 2,800 (approx.) graduates of the College of Medicine, is active in its support of the school and the student body.

In 1959 the Association created the Century Club, which, over the years, has grown to include faculty, parents, and friends of the College of Medicine. The college has benefited from more than \$3,000,000 of gifts contributed through the Century Club during the latter's 30-odd years of existence. Most of this has provided low interest, revolving loans for medical students in need of financial aid. Some years ago the Medical Alumni Association brought back old memories plus new interests to its alumni through the publication of *Hall A*. Through its Century Club the Medical Alumni Association has furnished a student lounge, purchased equipment for faculty and students, supported numerous student activities, and awarded prizes for special achievements to members of the graduating class. A most worthy accomplishment has been its support toward the endowment of the academic chairs in pathology and internal medicine.

For the years 1990-92, the following will serve as officers of The University of Vermont Medical Alumni Association:

President: Mildred A. Reardon '67

President-Elect: Jay Selcow '59

Treasurer: John Mazuzan '54

Secretary: Douglas Eddy '74

Alumni Executive Secretary: John Tampas '54

Executive Committee: The officers, the Dean of the College of Medicine, the Director of Alumni Affairs, and six other members-at-large. The past presidents of the Association and the presidents of the undergraduate classes of the College of Medicine shall serve as *ex officio* members with voting privileges.

Members-at-Large 1990-92: Marga Sproul '76, Dudley Baker '57, Bruce Chaffee '60, Cajsia Schumacher '74, Mary Maloney '77, Suzanne Parker '73, Raymond Anton '70, James Betts '73, Herbert Hein '64.

The Department of Anatomy and Neurobiology

Professors Parsons (Chairperson), Wells, Young (Emeritus); Associate Professors Ariano, Cornbrooks, Fiekers, Freedman, Powers; Assistant Professors Boushey (Emeritus), Forehand, Mawe, May; Research Assistant Professor Braas; Research Associate Konopka; Lecturers Ezerman, Fonda, Lee.



Rodney L. Parsons, Ph.D.,
Chairperson

Departmental Research Program

Our research activities are concerned with nervous system structure and function and thyroid cytophysiology. Specific areas of interest include: physiology and pharmacology of synaptic transmission; the influence of drugs and ions on the kinetic properties of ion channels in cultured and adult cells; neuron-glia interactions in the peripheral nervous system during development and repair; development of biochemical techniques and monoclonal antibodies for immunohistochemical studies *in vitro* and *in vivo*; cyclic nucleotide and monoamine cytochemistry in the CNS and sympathetic ganglia; electrophysiological, anatomical, and pharmacological properties of vertebrate peptidergic neurosecretory cells; mammalian neuronal development; regeneration and plasticity using intracerebral transplants of embryonic tissue to the CNS of adult or neonatal recipients; development of the mammalian nervous system; intracellular staining of neurons; histochemical and electrophysiological analysis of autonomic nervous system regulation of gastrointestinal function; analysis of the avian motor system; neurosecretion and neuroendocrinology of fishes; structural reorganization of the nervous system after injury; and the cellular dynamics of thyroid follicular cells.

Basic Science Core

We offer courses to medical students in gross anatomy, microscopic anatomy, and neuroscience.

GROSS ANATOMY. This course provides an understanding of the fundamental principles of organization of the human body through individualized laboratory instruction involving dissection of the entire cadaver. Models, cross sections, charts, radiographs, slides, and movies are utilized as teaching aids. Gross anatomy, embryology, radiological anatomy, and clinical correlation lectures are also presented. Upon completion of this course, the first-year medical student will have a working knowledge of anatomy and an appreciation for the fundamental role of gross anatomy in other medical disciplines. Three lecture and 11 laboratory hours are offered each week during the first trimester.

MICROSCOPIC ANATOMY. This course will help students acquire useful and meaningful concepts of cell and tissue morphology and the structural organization of selected organs, an appreciation of structure as the locus of function, and an introduction to the methodology of histologic examination of tissues. Histochemistry and electron microscopy are emphasized when they illuminate structural and functional concepts. Six hours of lecture and laboratory are offered each week during the first trimester.

NEUROSCIENCE. This course emphasizes the morphological and physiological features of neuronal and non-neuronal cells in the human central nervous system and the anatomical organization of these cellular elements into functional systems. The organization of sensory and motor systems and the integration of associative neural centers related to behavioral functions are emphasized through clinical presentations

in preparation for intelligent diagnosis and localization of neural disorders. The course is offered in the second trimester and includes approximately 12 hours of lecture, conferences, and laboratory per week.

Elective Program

In cooperation with interested clinical departments, we offer, in addition to Graduate College courses, advanced courses in neuro-anatomy, gross anatomy, and histology.

Combined College of Medicine and Graduate College Degree Program

We offer graduate courses and research opportunities leading to the Ph.D. degree to interested medical students. Participation in this degree program is conducted under the regulations of the Graduate College and requires the approval of the College of Medicine and the Department of Anatomy and Neurobiology. For information on courses and programs offered by the Department, consult the Graduate College catalogue or contact the Chairperson, Department of Anatomy and Neurobiology, University of Vermont, Given Building, Burlington, Vermont 05405-0063.



The Department of Biochemistry

*Professors Chiu, Cutroneo, Col-
len, Long, Mann (Chairper-
son), Meyer, Rittenhouse, J.
Thanassi, Woodworth; Associ-
ate Professors Auletta, Hart;
Adjunct Associate Professors
Crabb, Harris; Assistant Pro-
fessor R. Tracy; Research Asso-
ciate Professors N. Thanassi, P.
Tracy; Research Assistant Pro-
fessors Church, Mason, Van
Houten.*



*Kenneth G. Mann, Ph.D.,
Chairperson*

Our teaching program is designed to impart a knowledge of fundamental biochemistry which will permit an understanding of present applications and future developments related to medicine. In order to provide the biochemical information needed by other basic sciences, biochemistry is offered at the beginning of the first year. Emphasis is placed on fundamental biochemical principles and applications to medicine.

Members of the department are also available for participation in other courses in the medical curriculum.

Basic Science Core

MEDICAL BIOCHEMISTRY. Lectures, conferences, and assigned readings are offered in biochemistry, particularly as it relates to medicine. The course stresses the area of molecular biochemistry: chemistry, structure, and metabolism of protein, amino acids, carbohydrates, lipids, and nucleic acids, and the properties and functions of enzymes. The biochemistry of the whole organism is of particular consideration. Respiration, hemoglobin, iron metabolism, plasma proteins, acid-base balance, mineral metabolism, vitamins, hormones, and control mechanisms are some of the topics discussed.

Elective Programs

Opportunities exist for additional training in both the theoretical and practical aspects of biochemistry. Graduate courses offered by the department are available to qualified medical students as part of their elective program. Participation in the research activities of the department is possible as an elective and also during the summer.

Combined College of Medicine and Graduate College Degree Program

We offer graduate programs leading to the M.S. and Ph.D. degrees. The option of a combined degree program is open to interested and qualified medical students, subject to the approval of the department and to the regulations of the Graduate College. We have extensive facilities which are well equipped with modern instruments for all areas of research in biochemistry and molecular biology. The research activities of our faculty make available a broad spectrum of studies including mechanisms controlling ovarian function; regulation of gene expressions in developing and neoplastic tissues; physiology and biochemistry of thrombolysis; mechanisms of hormone action; gene expression in androgen responsive systems; toxicity of cadmium and its reactions in the lung; regulation of biochemical reactions in blood coagulation; molecular biology, cloning and expression of blood coagulation proteins; macromolecular assembly in blood coagulation and bone formation; transport of iron into cells by receptor mediated iron-binding proteins; enzymology of protein and nucleic acid processing and breakdown; phospholipid biochemistry; chemistry and biochemistry of vitamin B₆; cellular interactions with coagulation proteins; protein biochemistry of bone in aging; tumor biochemistry; nature of the binding of metals to proteins, particularly the iron-binding proteins of blood plasma.

For additional information on our graduate programs, consult the catalogue of the Graduate College or write to us for a copy of our brochure. Specific questions should be addressed to Chairperson, Department of Biochemistry, University of Vermont, Given Building, Burlington, Vermont 05405-0063.

The Department of Family Practice

Professors Hochheiser (Chairperson); Associate Professors Hughes, Little, Ramsay, Saia, Sproul, Tormey, Wadland; Clinical Associate Professors Allard, Lantman, Park, Ryan, Stanilonis, Vogt; Assistant Professors Peterson, Ward; Clinical Assistant Professors Backus, Bertocci, Coddair, Cook, Cope, Ferguson, Fifield, Miller, Murray, Reiss, Rosmus, Scholan, Schultz, Waring, Williams; Research Professor Worden; Research Assistant Professor Flynn; Clinical Instructors Bernstein, Bruehl, Crose, Corrigan, Earle, Graham, Hobbs, Massanari, Matthew, Rowe, Saferstein, Tockman; Lecturer Brubaker.



*Louis I. Hochheiser, M.D.,
Chairperson*

Maine Medical Center: Professor Randall (Chief); Associate Professor Belisle; Clinical Associate Professors Abbott, Haskell, Hill, Knapp, McNeil, Pawle; Clinical Assistant Professors Bellino, Kita, Kosen, Paulding, Rockefeller, Saffer; Instructors Bray, Harper, Schirmer; Clinical Instructors DeSieves, Rowland, Sanborn.

We offer instruction to medical students and administer a residency program in affiliation with the Medical Center Hospital of Vermont and the Fanny Allen Hospital. In addition to academic offices in the Given Building, we operate ambulatory teaching practices at the Villemare Family Health Center in Milton and the Colchester Family Health Center in Colchester. A number of practices in Vermont and Maine provide clinical instruction to students. Philosophically, we are concerned with the provision of comprehensive, continuous primary medical care with an orientation to the family and the community. The development of the physician as a person is an important aspect of the department's philosophy.

Basic Science Core

We offer a required course entitled Basic Clerkship which begins in the fall semester of the first year and meets weekly throughout the Basic Sci-

ence Core. The first four months are spent learning the techniques of physical examination in peer group tutorials. During the second semester, further instruction in interviewing, examining, and obtaining a medical history is scheduled in a variety of outpatient and hospital settings. By the completion of the clerkship, students are capable of eliciting a thorough medical history, performing a complete physical examination, and producing an orderly problem-oriented medical record.

A required course on sexuality in health and illness is taught during the fall semester of the sophomore year. The course provides students with a basic knowledge of sexual development, function, and problems, and a forum to conceptualize how patients' sexuality influences their health and illness.

A 16-week elective in family medicine is offered on a space available basis during the second and third semesters of the first year. One half day per week is spent working with a family physician in the greater Burlington area. The purpose of the elective is to provide an early introduction to family medicine with its emphasis on comprehensive and continuing care of patients and their families and to provide the opportunity to develop skills in physical examination, diagnosis, and medical interviewing. Students also learn about the management of common problems in ambulatory medicine.

Senior Selective Program

One month of Family Practice preceptorship is required of all students during the Senior Selective portion of the curriculum. Students are placed in a variety of family practice settings in northern New England to provide an exposure to family practice, participation in the management of common medical problems, and observation of doctor-patient relationships in the context of family and community.

We offer an advising program for students considering a career in family practice.

The Department of Medicine



*Edward S. Horton, M.D.,
Chairperson*

The Department of Medicine has as its three-fold mission scholarly instruction in the disciplines of general and subspecialty internal medicine, active involvement in clinical and basic biomedical research, and provision of high quality care to patients.

Our faculty have had advanced training in the broad field of internal medicine, and most have additional research or special clinical skills that provide balance and strength through the areas of departmental responsibility in hospitals, clinics, and laboratories.

As specialists in internal medicine and the medical subspecialties, we provide direct care to patients and consultative services to physicians in our region.

As attending or consulting staff physicians at the Medical Center Hospital of Vermont, we provide daily patient care, bedside instruction, and supervision for students, house staff, clinical trainees, and other physicians. As clinical and laboratory investigators, we bring refined and quantitative methods to bear on problems of human disease, often working as units or teams in laboratory areas within the medical school complex.

The many formal and informal departmental conferences ranging from Medical Grand Rounds to daily bedside rounds are attended by students, house staff, senior staff, and visiting physicians.

Clinical Science Core

The 12-week clinical clerkship in Medicine emphasizes care of patients hospitalized on the medical services at the Medical Center Hospital of Vermont, the Champlain Valley Physicians' Hospital, and the Maine Medical Center. Students selecting the Maine Medical Center complete the entire clerkship at that site; students selecting the Medical Center Hospital of Vermont site spend two months at the MCHV and one month in Plattsburgh. In each institution, students are encouraged to take progressive responsibility for patient care under the supervision of house staff and attending physicians.

Advanced Basic Science Core

Epidemiology is taught by case method by preceptors with groups of students and emphasizes the distribution and determinants of disease in population. Students participate as epidemiologists in investigating disease outbreaks, appraising the evidence in published clinical observations, and developing research designs. Teaching examples are from actual outbreaks and published clinical studies. We view epidemiology as a basic science for physicians that strengthens clinical observations and assists patient care.

Senior Selective Program

The discipline of Internal Medicine demands intellectual curiosity, academic rigor, and effective relationships with patients, peers, and medical associates. We attempt to enhance these behaviors in rotations on the medical services at the Medical Center Hospital of Vermont and the Maine Medical Center. Each of these institutions offers acting internships in medicine. We also offer subspecialty electives combining both inpatient and ambulatory care experience in cardiology, dermatology, gastroenterology, geriatrics, hematology, infectious diseases, endocrinology-metabolism and nutrition, nephrology, oncology, pulmonary diseases and rheumatology-clinical immunology. In addition, interested students wishing to arrange a research experience under the guidance of a faculty member in the department are encouraged to do so. Our faculty welcome the opportunity to serve as faculty advisors to students during the Senior Selective Program.

Cardiology Unit

Professors LeWinter (Director), Levy, Tabakin; Associate Professors Ades, Brown, Capeless, Ditchey; Assistant Professors Davies, Langburd, Slinker; Clinical Associate Professors Gundel, O'Brien, Raabe, C. Terrien; Clinical Assistant Professors Baker, DeSilvey, Shapiro, Walker; Clinical Instructors Bonazinga, Davis, Fitzgerald, Heitzman.

Maine Medical Center: Professor Lambrew; Associate Professor Osher; Clinical Associate Professor Anderson; Clinical Assistant Professors Adams, Alpern, Cutler, Driscoll, Givertz, Love, Macleod, R. Morse, Shaw, Sweeney, Sze; Instructors Kurhjian, Lemieux, Moloney, Poulin.

The Cardiology program includes demonstrations and lectures on examination of the heart and cardiovascular system, an elective for third- and fourth-year students emphasizing reading electrocardiograms and consulting on inpatients with cardiological problems, and a very busy teaching program for those students assigned to the Coronary Care Unit and cardiac floor. All of the medical house officers receive training in the CCU and on the cardiac floor and fellowships are available to house officers who have completed their medical residency training. Our program is very comprehensive and graduates are highly-skilled, fully-trained cardiologists. In addition to our multilevel teaching program, we operate a referral clinical cardiology service for a large geographical area which includes most of Vermont and much of upstate New York. A complete range of sophisticated diagnostic and therapeutic procedures is available to these referred patients.

Our research program includes studies on cardiac muscle function, cardiopulmonary resuscitation, exercise function, the therapy of cardiac rhythm disturbances, artificial pacemakers, acute myocardial infarction, and coronary artery disease.

Dermatology Unit

Professor Krusinski (Director); Associate Professors Gordon, Pirozzi; Clinical Professor J. Madison; Clinical Associate Professor Dennison; Clinical Assistant Professor LePage.

Maine Medical Center: Clinical Assistant Professors M. Morse, Sommer.

Our faculty participates in didactic lectures to medical students in the Basic Clerkship and during the Clinical Core. Senior students rotate through the division in one-month electives.

The educational program is multifaceted with instruction revolving around patient care in the ambulatory setting. The unit participates in many

continuing medical educational programs for primary care physicians and for dermatologists.

We also serve as a regional center for consultation. Research interests are varied and include the immunology of non-melanoma skin cancer; topical minoxidil for male pattern baldness; dermatoses of pregnancy; and therapeutic trials of new drugs for acne and atopic dermatitis and varicella-zoster virus infections.

Endocrinology, Metabolism, and Nutrition Unit

Professors Horton, Danforth; Associate Professors Devlin, Nair, Robbins (Director), Tonino; Assistant Professor Calles, Nathan; Research Assistant Professors Poehlman, King; Clinical Associate Professor Keyssar.

Maine Medical Center: Professor Bigos; Associate Professor Johnston, Spratt; Clinical Assistant Professor Hotelling.

Endocrinology, Metabolism, and Nutrition is a subspecialty of Internal Medicine. The disorders seen by this specialty overlap and occur in every medical specialty. Thus, medical students, residents, and fellows are taught the clinical approach to the proper and logical diagnosis, treatment, and follow-up of these ubiquitous disorders. During the Basic Science Core, the faculty present lectures on fundamental topics including carbohydrate, protein and lipid metabolism, mechanisms of integrated hormone regulation of intermediary metabolism, exercise physiology, nutritional assessment and management, and the role of energy intake and expenditure on energy balance and hormone secretion. During the Clinical Core, the faculty discusses fundamental principles in regard to the clinical situation. Bedside teaching focuses on the patient interview, signs and symptoms of endocrine and nutritional diseases, and the physician-patient relationship, particularly when dealing with chronic diseases such as diabetes mellitus and obesity. The large faculty also offer a wide variety of experiences in both laboratory and clinical investigation to the Senior Major student. The clinical elective exposes the student to the inpatient consultative and outpatient practice of endocrinology, metabolism, and nutrition.

Our faculty is actively engaged in a variety of research efforts and is recognized for its expertise in energy balance, thyroid hormone metabolism, exercise physiology, carbohydrate, lipid and protein metabolism, and insulin chemistry. Faculty members are currently engaged in research on the mechanisms of energy regulation, insulin resistance, the interrelationship of nutri-

tion to thyroid hormone metabolism, normal aging, metabolism of injected insulin in diabetes mellitus, and application of low-protein diets to patients with renal disease. Students are welcome to participate in these projects.

Gastroenterology Unit

Professors Krawitt (Director), Beeken; Associate Professor Kelleher; Assistant Professor Vecchio; Clinical Associate Professors Alden, Ludewig, Mayer.

Maine Medical Center: Clinical Professor Augur; Clinical Associate Professor Howell; Clinical Assistant Professors Kilby, Roy, Wexler, Winchenbach.

Gastroenterology participates in teaching medical students during the Basic and Clinical Science Cores and the Senior Selective Program. Efforts are directed at teaching diagnosis, management, and pathophysiology of gastrointestinal diseases including those of the esophagus, stomach, small intestine, large intestine, pancreas, gallbladder, and liver. During the Senior Selective Program, students develop techniques of data collection and synthesis for the diagnosis and management of dysphagia, vomiting, jaundice, hepatomegaly, ascites, abdominal pain, gastrointestinal obstruction, gastrointestinal bleeding, diarrhea, and constipation. During that period, they also have the opportunity to observe endoscopic procedures and biopsy techniques.

Faculty research efforts are directed toward understanding the immunopathogenesis of inflammatory bowel disease, chronic hepatitis, and the definition of markers of gastrointestinal tumors.

General Internal Medicine Unit

Professors Babbott, Bouchard, Tufo (Director); Associate Professors Bronson, Graman; Assistant Professors Bertsch, Gunther, Haskell, Luria, MacLean, Plante, Rubin, Schultz, Warner; Clinical Professors Lantman, Moynihan; Clinical Associate Professors Allard, Golodetz, Haddock, Park, Ryan, Ryder, Stanilonis, Stouch; Clinical Assistant Professors Bedard, Carney, Collier, Dean, Hayden, Hindes, Frost, Mongeon, Rothwell, Rubman, Ultee; Clinical Instructors Cross, LaFiandra, Pratt.

Maine Medical Center: Professors Cox, Hillman, Ritchie; Associate Professor Keilson; Assistant Professors James, Rand; Instructors Kusick, Riker; Clinical Associate Professors Saunders, Whitney; Clinical Assistant Professors Botler, Briggs, Broda Bryant, Carnes, Engel, Ervin, Hardy, Larned, Scotton, Sturges, Taylor, Thurber, Webber; Clinical Instructors Bell, Cathcart, Crouch, Frederick, Myers, Pauk, Pringle, Sigler.

Through the Given Health Care Center, we offer elective programs in the preclinical and

clinical years for students interested in ambulatory health care. Postgraduate residency training in both the inpatient service and Given Health Care Center is provided by members of our unit. A specialized postgraduate program in training of the general internist is offered to selected residents. Students may participate in research programs in health care delivery, epidemiology, and health care economics.

Geriatrics Unit

Professors Tisdale (Director), Waller; Associate Professor Runge; Clinical Assistant Professor Perelli.

Geriatrics has developed an integrated four-year geriatric medical curriculum that emphasizes normal aging, clinical disorders of the elderly, and principles of long-term care. Clinical teaching and patient care experiences are centered in general hospital, ambulatory office, nursing home, and community and home settings. Current clinical research projects include: the effects of exercise on carbohydrate metabolism in the elderly; the role of functional health assessments in long-term care; the causes of accidents in nursing homes; and the epidemiology of dementia.

Hematology and Medical Oncology Unit

Professors Branda (Director), S. Burns; Associate Professors Grant, Roberts, Stewart; Assistant Professor Valentine; Research Associate Professor Tracy; Clinical Professors Reardon, Wallace, Westphal; Clinical Assistant Professors L. Burns, Griffin.

Maine Medical Center: Clinical Professor Case; Clinical Associate Professors Bove, Boyd, Carroll; Clinical Assistant Professor Dorsk; Clinical Instructors Hayes, Shepp; Lecturer T. Ervin.

Hematology evaluates and treats patients with diseases of the blood, bone marrow, and lymphatics. Teaching occurs at the bedside, in the clinic, and during patient-oriented conferences. We offer electives to provide house staff and medical students experience with the comprehensive management of hematologic conditions. In addition, we offer the opportunity to participate in active research programs in the areas of thrombosis and bleeding problems, leukemia, genetics, blood transfusion, and anemias. Medical Oncology provides comprehensive diagnosis, evaluation, and treatment of all forms of cancer. Medical students and house staff learn through patient contact, lectures, and conference about tumor biology, clinical manifestations of malignancy, and multidisciplinary

therapeutic approaches. Elective opportunities are provided for participation in research programs involving chemotherapeutic drug development, immune aspects of neoplasia including adoptive immunotherapy, and drug trials. A postgraduate training program is available to prepare physicians for joint certification in the subspecialties of Hematology and Medical Oncology.

Infectious Diseases Unit

Professors Gump (Director); Assistant Professors Grace, Tobin; Clinical Associate Professor Christmas, Stouch; Clinical Instructors Fink, Miller.

Maine Medical Center: Clinical Professor Bach; Clinical Associate Professors Claffey, Smith, Valenti; Clinical Assistant Professor Hall.

Our unit teaches the diagnosis and treatment of all types of infections, including viral, bacterial, fungal, and parasitic diseases.

During the Basic Science Core, in conjunction with Microbiology, lectures stress the relationship of infectious diseases to this basic science discipline. In the Clinical Science Core, the use of laboratory techniques are stressed in the diagnosis and therapy of infectious processes. Finally, during the Senior Selective Program students are provided with an opportunity to participate in the diagnosis and therapy of patients presenting a variety of infections.

Research is pursued in the evaluation of newer antimicrobials, antivirals, and vaccines. Students are welcome to participate in these activities.

Medical Genetics Unit

Professor Albertini (Director); Research Associate Professor O'Neil; Research Assistant Professor Nicklas.

Faculty efforts are directed to applying the principles and techniques of modern genetics to problems in medicine, with emphases on the pathogenesis and prevention of disease. Educational activities include lectures and seminars in courses for medical and graduate students, bedside teaching for medical students and house officers, and teaching in the laboratory setting for medical students, graduate students, and postdoctoral fellows. Specific interests of our faculty include genetic susceptibility to common diseases, genetic toxicology, mechanisms of mutagenesis/carcinogenesis, and immunogenetics. Unit research projects investigate aspects of human genetic toxicology, human susceptibility to environ-

mental mutagens/carcinogens, genetic linkage, and immunogenetic factors in autoimmune disorders, allograft rejections, and anti-tumor responses. A laboratory in the Vermont-New Hampshire Red Cross Blood Center is dedicated to the Unit's research projects, with full facilities for tissue culture and DNA level gene studies. Several collaborative research projects involve individuals in other units of the Department of Medicine, and in other departments in the College of Medicine. The common themes of the collaborative research are the role of somatic cell mutations in disease processes, including mutations in lymphocytes in immunological disorders, and genetic susceptibility factors. Medical students may elect rotations in the Medical Genetics Unit and become involved in these activities.

Nephrology Unit

Professors Gennari (Director), Kunin; Associate Professors Groggel, Hood, Rimmer; Research Associate Professor Maddox; Clinical Assistant Professor Malseptic; Clinical Associate Professor T. Terrien.

Maine Medical Center: Professor Leeber; Assistant Professor Mahoney; Clinical Associate Professor Hallee; Clinical Assistant Professors Himmelfarb, Parker, Walworth.

Our faculty contribute to undergraduate medical education at several levels. In conjunction with Physiology and Biophysics, lectures are offered in electrolyte and acid-base physiology. In the Clinical Core, instruction is given in nephrology, hypertension, and acid-base and electrolyte disorders. In the Senior Selective Program, a one-month elective in nephrology is offered throughout the year. Faculty members are involved in research projects in acid-base physiology, pathophysiology of glomerular disease, and hypertension. Interested students are invited to become involved in these projects.

Pulmonary Medicine Unit

Professors Davis (Director), Graham, Kelley, Secker-Walker; Assistant Professors Gannon, Wencel; Research Associate Professor Absher; Clinical Professor A. Bergner, Clinical Assistant Professor Madison.

Maine Medical Center: Professor Aranson; Associate Professors Bates, Bokinsky, Caldwell, Tooker; Assistant Professors Altman, Bagwell, Williams.

The scientific interests of our faculty are broad, ranging from basic biochemical research on lung connective tissue metabolism to epidemiology of occupational lung disease. Much of the research effort centers around immune-inflammatory defenses and injury in the lung. Clinical

studies include research on pulmonary fibrosis, acute and chronic lung injury, bronchialveolar lavage, silicosis, and smoking cessation. Basic laboratory research focuses on alveolar macrophage interactions with fibroblasts, lymphocytes, and neutrophils, and on collagen biochemistry. Lung defense mechanisms are studied through animal models of lung injury, silicosis, and Legionnaires' Disease.

Clinical and research training in respiratory diseases is a high priority. Physicians who have completed training in Internal Medicine enter a three-year program for education in the subspecialty of pulmonary diseases, and acquire in-depth experience and teaching in clinical consultation, critical care, pulmonary physiology, tuberculosis, and associated technical procedures. Most of the time in the second and third years of training is devoted to research, with participation in clinical and laboratory projects usually leading to presentation and publication of the results obtained. Additional training in critical care is available. Medical student summer fellowship researchers and master's and doctoral degree candidates in cell biology often work in our laboratories.

Rheumatology and Clinical Immunology Unit

Professor Cooper (Director); Associate Professors Buckley, Leib; Assistant Professor Budd; Clinical Associate Professors Lipson, London, Martenis.

Maine Medical Center: Clinical Professor Phelps; Clinical Associate Professors Anderson, Thompson; Clinical Assistant Professors Miller, Morton.

During the Clinical Core, our faculty instruct students on the approach to and examination of the musculoskeletal system. A one-month elective in the Senior Selective Program is offered for students interested in developing expertise in the evaluation and care of rheumatic disease patients in an out-patient setting. Instruction also emphasizes current concepts of immunology and their relationship to autoimmune diseases.

Faculty members are involved in research projects directed at the study of T cell mediated immune mechanisms in the pathogenesis of rheumatoid arthritis and the effects of new therapies on inflammatory arthritis. Students are invited to participate in these projects.



The Department of Microbiology and Molecular Genetics

Professors Albertini, Fives-Taylor, Gump, T. Moehring, Novotny, Schaeffer, Wallace (Chairperson); Associate Professors Kurjan, Sjogren; Assistant Professors Bateman, Burke, Gilmartin, Johnson, Pederson, Periasamy, B. Van Houten; Research Professor J. Moehring; Research Associate Professor Raper; Research Assistant Professors Kow, Melamede, Pratt; Lecturers Silverstein, Tessmann; Research Associate D. Meyer.



Susan S. Wallace, Ph.D.,
Chairperson

Through our teaching and research programs, we provide training in the fundamentals of pathogenic and advanced microbiology. Areas of special teaching competence or research interest include: molecular mechanisms of pathogenesis; molecular basis for bacterial virulence: mechanisms of adhesion and invasion of host cells; genetics of resistance of mammalian cells to diphtheria toxin, pseudomonas toxin, and viruses; understanding the role of cytoplasm in the induction and maintenance of the malignant state; the molecular biology of mating-type in *Schizophyllum commune*; control of cellular morphogenesis during the yeast cell cycle; the generation and maintenance of cell polarity; yeast G proteins; molecular approaches to the study of DNA damage and repair: DNA repair enzymology, biological consequences of oxidative DNA base damage; assembly and function of transcription complexes in chromatin; the role of DNA methylation in viral transcription; RNA polymerase II transcription in *Acanthamoeba*; RNA processing and catalytic RNA; occurrence and survival of bacterial pollutants; dispersal of antibiotic and virulence genes in water and soil ecosystems. Medical students, with permission, are encouraged to participate in any of these activities during free or elective time.

Basic Science Core

MEDICAL MICROBIOLOGY. The primary objective of this course is to present to students of medicine those aspects of microbiology which they as physicians will find of value. Mechanisms of pathogenesis and specific agents causing diseases of viral, bacterial, fungal, and parasite origin are discussed with emphasis on the ecologic rather than taxonomic approach. A detailed description of the host's immune system and its response to infection is presented, along with the role of the immune system in transplantation, autoimmune diseases, and AIDS. Other topics of current interest include viral oncogenesis, microbial resistance to antibiotics, and infections occurring in the immunocompromised host. A number of laboratory sessions illustrate how the lab can be an aid to the student of microbial disease in diagnosing infections.

Combined College of Medicine and Graduate College Degree Program

We offer programs of study leading to the M.S. and Ph.D. degrees, and medical students are encouraged to enroll in our joint degree program. Opportunities are available to conduct thesis research in the areas described in the introductory paragraph above. The general requirements for entrance into and completion of such a program are summarized in the accompanying general paragraph on page 10.

For additional information on graduate programs in the Department, consult the catalogue of the Graduate College or write to the Department for a copy of our brochure. Specific questions should be addressed to Dr. Thomas J. Moehring, Department of Microbiology and Molecular Genetics, University of Vermont, Given Building, Burlington, Vermont 05405-0063.

The Department of Neurology

Associate Professor (Acting Chairperson) Emery; Professors Lubker, Martin; Associate Professors Gomez, McSherry, Sriram; Assistant Professors Dissin, Fries, Tandan; Research Assistant Professor Robinson; Clinical Associate Professors Ciongoli, Lyon, Pendlebury, Podhajski, Roomet; Clinical Assistant Professors Azar, Bennett, Brittain, Edwards, Scollins, Snyder; Clinical Instructor, Peaper; Research Physical Therapist Fillyaw.



*E. Stanley Emery, M.D.,
Interim Chairperson*

Maine Medical Center: Associate Professor Kunkle; Clinical Assistant Professors Boothby, Jozefowicz, Leschey, Rioux, Sullivan.

Our department provides instruction to undergraduate students in diseases of the nervous system, sponsors a graduate residency training program in neurology at the Medical Center Hospital of Vermont, and actively participates in allied health and continuing education programs. House officers from other programs, in particular medicine, pediatrics, and psychiatry, rotate through the neurology service routinely. Resident physicians assist in the instruction of students on the inpatient service. Didactic conferences are held regularly and are primarily for the benefit of medical students. An active visiting professor's program enhances the teaching program. Our faculty engages in both primary and consultative patient care and clinical investigation and operates several specialized outpatient clinics. Special emphasis is placed upon child neurology and sophisticated electrodiagnosis.

Basic Science Core

In the context of the integrated course, Basic Clerkship, our staff provides a brief review of neurophysiology, demonstrates and explains methods of neurological diagnosis, discusses ancillary laboratory techniques, and supervises

student performances of bedside neurological examinations. The faculty participates in the neuroscience course and as lecturers in some of the other basic science courses.

Advanced Basic Science Core

We are responsible for a 16-hour course designed to provide groundwork in clinical neuroscience, to place basic neuroscience knowledge into the clinical context, and to provide an introduction to clinical neurology and neurosurgery.

Senior Selective Program

We participate in the Senior Selective Program. Elective rotations are available on the ward service (acting interns), on the child neurology service (primarily outpatient experience), inpatient consultation service, adult outpatient service, neurorehabilitative medicine, electrodiagnostic laboratory, Center for Language and Learning, and research. Close and frequent faculty contacts are the hallmark of these elements—direct faculty involvement occurs on an average of 16 hours per week. The experience in clinical neurology familiarizes the student with the concepts and mechanics of the neurologic history and examination, and with the symptomatology and management of common neurologic diseases, emphasizing those illnesses commonly encountered in family practice. Students become an integral part of the diagnostic and management teams. In addition, considerable experience is gained in neuropathology, interpretation of neuroradiologic and electrodiagnostic procedures, and with the medical, neurosurgical, psychiatric, and psychological aspects of disease of the nervous system by means of frequent and close contacts with those specialties. Similarly, students gain experience in the rehabilitative and orthopaedic aspects of these illnesses. The inpatient service is very active, with a large number of admissions, a very rapid turnover, and a wide variety of clinical problems.

The Department of Obstetrics and Gynecology

Professors Riddick (Chairperson), Simmons; Associate Professors Auletta, Braun, Brumsted, Capeless, Lewis, Stirewalt; Assistant Professors Bernstein, Brown, Gibson, Jarrell, Johnson, Magrane, Nakajima, Osol, Smith; Instructors Abaé, Fischer, Meyer, Towne; Clinical Professors Davis, Mead; Visiting Professor Solomon; Clinical Associate Professor Mazur; Clinical Assistant Professors Foley, Gallagher, Granaí, Hayward, Keleher, Murphy, Record, Romeyn, Russo, Stockwell; Clinical Instructors Campbell, Carroll, Clifford, Gannon, Groggel, Linn, Mann, Sheridan; Research Assistant Professor Chapitis.



*Daniel H. Riddick, M.D.,
Ph.D., Chairperson*

Maine Medical Center: Professors Meeker, Stubblefield (Chief); Clinical Professors Kent, Miller, Youngs; Associate Professors Rote, Smith; Clinical Associate Professors Bennert, Haddow, McCrann, Zerner; Clinical Assistant Professors Alexander, Baldwin, Doil, Ernst, Lawrason, McClean, Northrup, Wilkis; Clinical Instructors Brandes, Caldwell, Churchill, Fenn, Ward.

Basic Science Core

Our clinical faculty, in association with the basic science faculty, present appropriate, clinically-oriented material in physiology, anatomy, pathology, human sexuality, and the Basic Clerkship.

Clinical Science Core

The Clinical Core Program is presented over a period of eight weeks and includes clinical experience in ambulatory and inpatient obstetrics and gynecology. During the first week of each rotation, an introductory lecture series is given reviewing aspects of basic science and clinical care necessary for an understanding of the specialty prior to patient contact. Students are instructed in sterile technique and conduct neces-

sary for the delivery and operating areas. The technique of history-taking and the physical examination of the female is reviewed. We utilize the facilities of the Medical Center Hospital of Vermont, Maine Medical Center, and the Champlain Valley Physicians' Hospital. Clinical experiences are complemented by teaching rounds, and weekly conferences. In addition, the fundamentals of female reproduction, contraception, physiology, pathology, and the management of problems are taught by problem solving through the use of clinical material and periodic audit by assigned faculty advisors.

We feel that it is important to expose each medical student to the process of pregnancy and birth and to ensure an understanding of reproductive physiology and its implications in medicine and society. Students are provided with opportunities to follow selected patients with normal pregnancies through antepartum care, delivery, and postpartum recovery.

At the end of this clinical rotation, it is expected that in addition to being able to take a general medical history and perform a general physical examination, students will be able to diagnose pregnancy, examine the breasts, pelvis, and rectum to detect changes from the normal, and will have acquired the necessary skill to perform simple diagnostic tests such as the collection of material for cytologic smear and for the detection of genito-urinary infection.

Senior Selective Program

For students interested in pursuing a career in obstetrics and gynecology, we recommend a broad elective curriculum including general medicine and surgery. In addition, selected faculty members will serve in the role of advisors. The department offers rotations in endocrinology-infertility, gynecologic oncology, maternal-fetal medicine, and general obstetrics and gynecology.

The Department of Orthopaedics and Rehabilitation

Professors Frymoyer, Howe (Chairperson), Johnson, Milhous, Pope, Renstrom; Associate Professors Aronson, Hazard, Krag, Kristiansen, Ruess, Trevino; Assistant Professors Adams, Grobler, Incavo, Nichols, Talley; Research Professor Roth; Research Associate Professors Stokes, Wilder; Clinical Professor Kuhlmann; Clinical Associate Professors Ford, Mahoney; Clinical Assistant Professors Blattspelier, Hillfrank, Lavalette; Clinical Instructors Gryzb, Lord.



James G. Howe, M.D.,
Chairperson

Maine Medical Center: Professor B. McCann (Chief); Associate Professor E. McCann; Clinical Assistant Professors Barrett, Bernstein, Booth, Brown, Dowling, Martin, Moller, Southall.

Orthopaedics and Rehabilitation covers a broad field of medicine concerned with diseases, deformities, and injuries involving the neuromusculoskeletal system. We have as our primary responsibility the instruction of medical students, house staff, nurses, and physical therapists in the diagnosis, prevention, and management of problems specifically related to the musculoskeletal system. The faculty is involved in ongoing research programs, both basic and clinical, in the areas of arthritis, sports-related injuries, bone growth, spinal mechanics, scoliosis, low back pain, and mechanisms of fracture injury and healing. All faculty are involved in acute and chronic patient care. There is a fully-approved residency training program at the Medical Center Hospital of Vermont for 12 residents in children and adult orthopaedics as well as trauma and rehabilitation.

Basic Science Core

Our staff and residents participate in the teaching of medical students in all four years of the curriculum, including the teaching of anatomy during the first year. Lectures are given in the Basic Clerkship in physical diagnosis of musculoskeletal disease and deformity.

Clinical Science Core

Students may elect two weeks of orthopaedic surgery during the surgical segment of the Clinical Science Core. This elective provides both didactic instruction and the opportunity to examine orthopaedic inpatients and participate in their treatment. Students attend the orthopaedic clinics and have regular assignments in the care of patients in the emergency room and are encouraged to participate in the operating theatre.

Senior Selective Program

Orthopaedics and Rehabilitation electives are open to interested students. For students with a surgical career goal, we offer a one-month elective where there is opportunity to be more intensively involved in the management of both the in- and outpatient orthopaedic patient, as well as to assist members of the operating team.

For students interested in the broad field of rehabilitation, we offer a program which includes research and extensive inpatient and outpatient experience in all aspects of neuromusculoskeletal disease. Students who do not have an orthopaedic career goal may choose a senior elective in office orthopaedics or rehabilitation.

The Department of Pathology

Professors Clemmons, Craighead, Howard, Korson, Luginbuhl, Trainer (Interim Chairperson), Winn; Associate Professors Bovill, Hardin, Huber, Lee, Macara, MacPherson, Mossman, Pendlebury, Tindle; Assistant Professors Anderson, D. Durand, Heintz, Jessen, Taatjes, Tracy, Van Houten, Waters, Weaver; Clinical Assistant Professors B. Durand, Lunde, Morrow, Tutschka; Adjunct Associate Professor Solomon.



*Thomas D. Trainer, M.D.,
Interim Chairperson*

Maine Medical Center: Professors Nishiyama, Pusch; Clinical Associate Professors Fanning, Stocks, Taxiarchis; Clinical Assistant Professor Porensky.

The responsibilities of our faculty include teaching, research, and the practice of both anatomic and clinical pathology in the affiliated teaching hospitals. The diversity of interest and variety of responsibilities within the staff as represented by these activities create an ideal atmosphere for the introduction of medical and graduate students and postdoctoral trainees to the study of disease in all of its manifestations.

Basic Science Core

The major course in Pathology is presented as a part of the Basic Science Core and gives a concentrated yet comprehensive view of disease in sufficient depth to prepare students adequately for subsequent clinical studies. Fundamental principles are emphasized and structural, functional, and clinical correlations are stressed.

Although the organization of the course involves the traditional division into general and special pathology, the emphasis is considerably modified. Pathophysiological correlations are stressed. The teaching format varies from formal lectures to

small informal discussion groups. Students are encouraged and assisted in developing for themselves a pattern of self-education. Extensive use is made of clinical case studies, slides, gross material (both fresh and preserved), and visual aids.

Clinical Science Core

During the Clinical Science Core, we cooperate with other departments in providing instruction by collaborating on and presenting departmental and specialty conferences, clinical pathological conferences, and consultation on clinical problems.

Advanced Basic Science Core

During this period, we present instruction in clinical pathology designed to acquaint students with laboratory medicine, including the tests available in the clinical laboratory, the value and limitations on these tests, and the interpretation of results. Emphasis is placed on the clinical application of laboratory data and the correlation of this information with other clinical findings.

Senior Selective Program

Elective courses in pathology provide in-depth instruction in selected areas. For those students particularly interested in pathology, there is an opportunity for greater exposure to the field while continuing their in-breadth education as physicians.

Combined College of Medicine and Graduate College Program

Medical students are accepted into our graduate programs for the purpose of obtaining the M.S. or Ph.D. degree in conjunction with the M.D. degree. These students are enrolled in the Graduate College for one or more years to pursue research. Customarily, they matriculate in those courses that are not normally included within the medical program of study. However, course work from the medical school curriculum is applicable to the requirements of the Graduate College. The advanced degrees can be obtained concomitantly with the M.D. degree or at some other time.

Consult the catalogue of the Graduate College for additional information. Address specific questions to Chairperson, Department of Pathology, University of Vermont, Given Building, Burlington, Vermont 05405-0063.

The Department of Pediatrics

Professors Albertini, Dickerman, Levy, Lucey, McKay (Emeritus), Phillips (Chairperson); Associate Professors Cole, Colletti, Copeland, Emery, Guil-
lot, Horbar, Soll, Vane, Wald, Wasserman, Yeager, Young; Assistant Professors Allen, Davis, Frankowski, Gutt-
macher, Hubbell; Clinical Pro-
fessors Bergner, Gentry, Narke-
wicz, Stackpole, Swartz; Clinical Associate Professors Bates, Clewley, Coffin, Hodgkin, Land, Murray; Clinical Assis-
tant Professors Abramson, Cos-
tello, Duncan, Gerson, Hagan, Hassler, Heath, Holmes, Kent, Kus, Stifler, Wright; Clinical Instructors Baker, Brakeley, Chiappinelli, Ellerson, Hession, Long, Milne, Moseley, Owen, Peters, Quayle, Ryan, Tanner, Trumper, Wing, Wolk, Yates; Research Associate Professor Walters.

Maine Medical Center: Professors Dyment (Chief), Philip; Clinical Professor Hallett; Clinical Associate Professors Al-
lan, Berkovich, Haddow, McFaul; Clinical Assistant Profes-
sors Allegretta, Barron, Bauer, Blattner, Brewster, Burden, Chilmonzyk, Cohen, Dransfield, Dykes, Faucette, Foster, Fowler, Goodrich, Hofmann, Kessler, Losey, Lynch, Mann, Megathlin, Miller, Morrow, Rioux, Rivello, Sobel, Talbot, B. White, H. White, Wilkinson, Wilkoff, Williams; Clinical Instructors Carnes, Chaney, Lockwood, McIrvin, Miller, Patterson, Poulin, Osborne, Savadove.

In our department, students receive a grounding in pediatrics which will enable them to handle children successfully in whatever branch of medicine is eventually practiced. Particular emphasis is put on doctor-child-parent relationships.

We also take the responsibility for pediatric training of house staff at the Medical Center Hospital of Vermont.



Carol F. Phillips, M.D.,
Chairperson

Clinical Science Core

We offer a two-month clinical clerkship at either the Maine Medical Center or the Medical Center Hospital of Vermont. Students spend one month participating actively in the care of inpatients and another month in ambulatory patient care activities. Daily teaching rounds are held on the inpatient services. The ambulatory care experience includes two weeks in the office of a practicing pediatrician and two weeks of clinics. Seminars on basic pediatric subjects are held four days a week throughout the rotation.

Advanced Basic Science Core

Our faculty is responsible for the course in Medical Genetics, the objectives of which are to stimulate interest in the genetic aspects of medicine and to provide a framework upon which further genetic learning may be built. Chromosomal genetics, multifactorial genetics, population genetics, dysmorphology, teratology, horizons in the application of genetic knowledge in medicine, and principles of genetic counseling are covered, as well as the application of traditional Mendelian principles to humans and human diseases.

Senior Selective Program

We encourage students interested in a career in pediatrics to obtain a broad background in medicine during their SSP. An acting internship in pediatrics is encouraged; an ambulatory pediatric experience and a neonatology rotation would also be useful. Nonpediatric electives such as emergency room, radiology, and general medicine would provide good balance. We offer additional rotations in child development, foreign pediatrics, hospital pediatrics, neonatology, genetics and dysmorphology, sports medicine, cardiology, endocrinology, gastroenterology, and pediatric research.

The Department of Pharmacology

Professors J. Bevan (Chairperson), R. Bevan, Hacker, McCormack, Scollins, Tritton; Associate Professors Nelson, Reit, Robbins, Roberts, Stewart; Assistant Professors Brayden, Shreeve; Research Assistant Professors Bigelow, Borman, Dolci, Laher; Research Associates Bhushan, Eckhardt; Visiting Professors Maxwell, Standen; Visiting Assistant Professor Kovacs; Adjunct Assistant Professor Bress.



John A. Bevan, M.B., B.S., Chairperson

Basic Science Core

The pharmacology course for medical students is taught during the first period of the second year. By means of lectures and conferences, the course surveys the main classes of therapeutic agents and stresses the basic principles of drug action. These principles are reexamined from a clinical perspective and extrapolated to the use of the drugs in disease.

Advanced Basic Science Core

Our faculty is responsible for a lecture course in clinical pharmacology that is taught during the third year of the medical curriculum mainly by clinical instructors. Emphasis is placed on the actions and pharmacokinetics of drugs in humans and how these may be used in the treatment of disease. Drug side effects and their interactions are emphasized.

Combined College of Medicine and Graduate College Program

We offer Ph.D. and M.S. programs that can be pursued during enrollment in the College of Medicine. The general requirements for entrance into, and completion of, such combined degree programs are summarized in the general descriptive paragraph (p. 10). Specific departmental requirements for the Ph.D. degree include courses in basic pharmacology, medicinal chemistry, biometrics, and statistics as well as supporting courses in biochemistry, physiology, and neuroscience.

Research interests of our staff include: (1) Bio-

chemical pharmacology, toxicology, cell and molecular biology, and medicinal chemistry of experimental and established anticancer drugs. Classes of drugs investigated include complex quinones, platinum complexes, anthracyclines, and heterocyclic analogues of normal metabolites. Members of the research group investigate drug modulation of metastasis, membrane function, signal transduction, and of immunological function. A strong interaction exists with scientists in the Department of Chemistry who synthesize new anticancer drugs. (2) Studies on the mechanism of resistance to anticancer drugs using pharmacological, biochemical, and molecular techniques to better understand changes that occur in drug resistant tumor cells, and also the interactions that occur at the cellular and molecular level among cells that modulate inflammation and tissue damage. (3) Basis of tone in small blood vessels and its pharmacological modification. State-of-the-art techniques are used to determine the role of circulating and endogenous chemical substances, innervation, intravascular pressure and flow on the level of active contraction of resistance arteries and venules. This tone is altered in many vascular disease states including hypertension, stroke, and spasm. Animal models of disease are utilized. A unique laboratory pursues these studies in human arteries where the vascular consequences of established risk factors are assessed. This effort is undertaken in collaboration with clinical faculty. There is also an emphasis on the correlation of drug action and structure of the developing and mature vascular system and its innervation utilizing light, scanning, and transmission electron microscopy. Special emphasis is placed on synaptic function and new transmitters. (4) Structural and functional analysis of autonomic and peptide receptors, involving amino acid sequencing, immunochemistry, ligand binding, and other biochemical techniques. This work focuses on the interaction of hormones and drugs with receptors and the regulation of receptor activity by membrane components in normal and disease states such as hypertension. (5) Understanding calcium and potassium transport in single smooth muscle cells using bilayer, patch-clamp, and optical techniques. (6) Peptidergic innervation and transmitter interactions in blood vessels; electrophysiological and mechanical properties of vascular smooth muscle; hypertension, stroke, and vasospasm.

Consult the catalogue of the Graduate College for additional information. Address specific questions to Chairperson, Department of Pharmacology, University of Vermont, Given Building, Burlington, Vermont 05405-0063.

The Department of Physiology and Biophysics

Professors Alpert (Chairperson), Evans, Gibbons, Hendley, Low, McCrorey, Pallak, Warshaw; Associate Professors Hamrell, Webb; Assistant Professors Haeberle, Periasamy; Research Professor Maughan; Research Associate Professors Mulieri; Research Assistant Professors Blanchard, Mitchell, Woodcock-Mitchell.



*Norman R. Alpert, Ph.D.,
Chairperson*

Basic Science Core

MEDICAL PHYSIOLOGY AND BIOPHYSICS.

Physiology and Biophysics is taught as a science to first-year medical students in the second and third trimester emphasizing the broad physical, chemical, and biological principles underlying the function of mammalian organs, tissues, and subcellular systems. We place special emphasis on those fundamental principles important for understanding clinical medicine and research. The core course consisting of 114 hours is made up of lectures, demonstrations, workshops, and conferences.

NEUROSCIENCE. The core course in Neuroscience outlines morphological and physiological features of the neuron and the central nervous system. The functional significance of structure is emphasized throughout in order to prepare students for intelligent diagnosis and localization of neural disorders in the clinical sciences. The course consists of 114 hours of lectures, demonstrations, conferences, and lab-

oratories and is the joint responsibility of the Departments of Anatomy and Neurobiology and Physiology and Biophysics.

Elective Program

We have a vigorous graduate and research program. Medical students may participate in advanced seminars as well as in various research projects. Contact the Chairperson for details regarding formal participation in this program.

Combined Medical College and Graduate College Degree Program

We offer a Ph.D. degree emphasizing the development of independent research abilities. Students accepted into the M.D.-Ph.D. program join with other Ph.D. students working in a stimulating research environment. Our 12 active laboratory groups have special strengths in the areas of membrane biophysics, cardiac, skeletal, and smooth muscle biochemistry; molecular biology; mechanics and thermodynamics; pulmonary biology; and CNS biochemistry. Substantial collaborations exist between laboratories within our department and with other basic science and clinical investigators. Degree requirements include, in addition to those for the M.D., an advanced knowledge of statistics, biomedical instrumentation, and cellular biophysics. Students participate in an ongoing Comprehensive Seminar Series exploring areas of rapidly-developing knowledge in physiology and biophysics and carry out independent research resulting in a thesis. For further details, see the catalogue of the Graduate College or contact Chairperson, Department of Physiology and Biophysics, University of Vermont, Given Building, Burlington, Vermont 05405.

The Department of Psychiatry

Professors Achenbach, Cohen, Helzer (Chairperson), Hendley, Hughes, Lenox, Weiner; Associate Professors Brann, Franco, Ives, McAree, Van Buskirk, L. Willmuth; Assistant Professors Barss, Bickel, Higgins, Jones, Lewis, Newhouse, Tallmadge, Whitaker; Research Associate Professors Ellis, McConaughy; Clinical Professor Brooks; Clinical Associate Professors Bernstein, Bingham, Danielson, Gazda, Gibbard, Hillman, P. Langelier, R. Langelier, Lee, Loughridge, Older, Peyser, Rosen, Ruoff, Siegel, M. Willmuth; Clinical Assistant Professors Betts, Boedy, Dennett, Emmons, Fassler, Francke, Golden, Grayson, King, McKenna, Munson, Parker, Pierattini, Schultz, Van Tuinen; Clinical Instructors Hedden, Hochheiser, Jerman, Keller, LaFlamme-Betts, Lopez, McCann, Rahelich, Rubin, Stollenberg.



John E. Helzer, M.D.,
Chairperson

Maine Medical Center: Professor Elkins; Clinical Associate Professors Christie, Creelman, Doiron, Goldfine, Heath, King, McCarthy, McNeil, Schetky, Voss; Clinical Assistant Professors Evans, Goodman, Hardesty, Herst, Hinkens, Jacobsohn, Johnson, Maier, Marks, Morris, Popenoe, E. Robinson, G. Robinson.

Psychiatry is a burgeoning field. Within the past few years there has been a dramatic expansion of knowledge regarding psychiatric disorders in many areas including genetics, brain imaging, the neurosciences, epidemiology, and others. At the same time, psychiatry continues to be a specialty in which the art of medicine is a specific focus of attention. Therefore, the mission of our department is twofold: to teach the science of psychiatry, and to assist in the development of clinical skills that will enable all health professionals to observe, understand, and respond appropriately to the emotional needs of those for whom they have professional responsibility. Along with this educational program, we maintain a wide variety of clinical care efforts and contribute to new knowledge in the field with a broad portfolio of basic and applied research.

Basic Science Core

HUMAN BEHAVIOR. Required for all first-year students during the fall semester, this course presents an introduction to basic concepts of psychology and sociology as they relate to illness experience and behavior. The course is organized around the concept of developmental stages and, in addition to teaching such basic concepts as sick role, coping styles, patient-physician relationships, illustrates the impact of illnesses on the various developmental stages. Twenty faculty members from various departments participate as instructors. The teaching format is organized around small group discussion with an emphasis on patient interviews to demonstrate concepts. No examinations are given, and grading is on a pass-fail basis. Participation in small groups is a requirement for completion of the course.

Clinical Science Core

The core course provides a broad exposure to concepts of behavior, diagnosis, and treatment. The eight-week rotation consists of various learning activities, including seminars, case and topical presentations, as well as supervised patient care assignments.

The core rotation has several emphases: an understanding of the conceptual relationship between neuroscience and the social sciences in clinical psychiatry; knowledge of psychopathology and psychiatric syndromes; proficiency in interviewing; familiarity with the application of psychiatric knowledge and skills within the general medical setting; and psychopharmacology.

Senior Selective Program

We offer electives on most of our clinical services as well as in neuroscience research. The elective on the Consultation Liaison Service would be useful for students planning a clinical career; an elective on the Crisis Service would be useful for students who plan to enter a primary care specialty. Students considering a career in neurology might find inpatient or outpatient psychiatry to be instructive. Students

planning a career in psychiatry should consider taking at least one of the above electives but should be aware that a proper medical foundation for a future career in psychiatry includes at least one acting internship in medicine as well as an acting internship in neurology. Subspecialty rotations in such areas as endocrinology and cardiology are also particularly useful for persons considering a psychiatric career. Students selecting a member of the psychiatry or

neurology department as an advisor will be expected to complete a scholarly project based on clinical or research experience to be selected and developed in collaboration with the faculty advisor. At the completion of the scholarly project, students will be expected to present a paper on their project to a joint meeting of the faculty of the neurology and psychiatry departments. A prize is awarded for the best scholarly project presentation.

The Department of Radiology

Professors Clements, Dietrich, Fairbank, Heilman, Hunziker, Kupic, Mindell, Tampas (Chairperson); Associate Professors Barth, Brown, Ratkovits, Roe, Roland, Sturtevant, Swift; Assistant Professors Alsofrom, Goodwin, Lovett, McDay, Moore, Najarian, Oppenheimer, Patel, Sussman; Clinical Assistant Professor Koerner.

Maine Medical Center: Clinical Professor Briggs; Clinical Associate Professors Blinick, Deming, Gilbert, Grimes, Hannemann, Isler, Luke, Packard, Salvo, Ware; Clinical Assistant Professors Abrahams, Amberson, Applebaum, Bittermann, Pezzuti (Chairperson), Pope, Ralston, Seitz.



John P. Tampas, M.D.,
Chairperson

We provide special services to local teaching hospitals and, in addition, provide instruction to medical students, residents, nurses, as well as students from the School of Allied Health Sciences in nuclear and therapeutic technology and from Champlain College in radiologic technology.

Twenty-two staff members and two physicists work full time in radiology at the Medical Center Hospital of Vermont and 20 radiologists work full time in the Maine Medical Center.

The teaching of radiology extends through the entire four years. Lecture and demonstration of the normal roentgen anatomy are given during the first year in conjunction with the Department of Anatomy and Neurobiology. In addition, orientation sessions are provided for the first-year students as part of the Basic Clerkship. During the Clinical Core, students are instructed in the principles of diagnostic and therapeutic radiology with numerous interdepartmental conferences held with the various clinical departments. An elective in radiology and its various subspecialties is offered during the Senior Selective Program.

A fully-accredited residency program in diagnostic radiology is available and utilizes the facilities of the College of Medicine and cooperating hospitals. Our staff participates in nearly all of the teaching conferences of the College of Medicine.



The Department of Surgery

Professors Shackford (Chairperson), Davis, Foster, Page (Emeritus), Pilcher; Associate Professors Cain, Haines (Emeritus), Haisch, Hebert, Koplewitz, Uphold; Clinical Associate Professor Majercik; Assistant Professors Harvey, Hyman, Kaups, McSweeney, Misselbeck, Ricci, Rogers; Clinical Assistant Professors Grabowski, Payne; Clinical Instructors J. Carson, P. Malone; Research Assistant Professor Shalos.



Steven R. Shackford, M.D.,
Chairperson

Maine Medical Center: Professor Bradenberry; Clinical Professor Ray; Clinical Associate Professors English, Goldfarb, G. Higgins, Pennoyer, D. Clark, Eldrup-Jorgensen; Clinical Assistant Professors Abourjaily, Baker, Carter, Chandler, Fourre, MacLaughlin, Saucier, Wallace; Clinical Instructors Earnshaw.

In addition to developing and implementing the surgical curriculum in the College of Medicine, we are responsible for the training of general and specialty surgical residents at the Medical Center Hospital of Vermont. The Department consists of the following Sections: Anesthesiology; Dentistry, Oral, and Maxillofacial Surgery; Neurological Surgery; Ophthalmology; Otolaryngology; Pediatric Surgery; Plastic and Reconstructive Surgery; Thoracic and Cardiac Surgery; and Urology.

Basic Science Core

Our staff participates in the multidiscipline Basic Clerkship.

Clinical Science Core

The 12-week core program in clinical surgery emphasizes the hospital care of patients with surgical illnesses. Students assigned to a surgical floor work as members of a team that includes the resident staff and attending surgeons. Students are responsible for the initial history and physical examination of assigned patients and

participate in all aspects of patient care, including operative procedures. Continuity of care is stressed. Instruction in general surgery is at the bedside and in clinical conferences; didactic material is presented by the staffs of general surgery and the specialty sections. Preceptorships with surgical attendings are used to teach ambulatory surgery. Students take night and weekend call with the members of their house staff team.

Senior Selective Program

We offer a major program to students seeking a career in general surgery or a surgical specialty. Under the guidance of an advisor from the surgical faculty, students elect from a variety of programs in surgery or in other departments within the College, including the basic science departments. Students are encouraged to take elective rotations at hospitals elsewhere. An opportunity to participate in on-going research projects within the Department is available as well as an opportunity for anatomical dissection. A research project is required to be presented at the end of the year.

Section of Anesthesiology

Professor Deane, Mazuzan (Chairperson), Shinozaki; Associate Professors J. Abajian, Bell, Burfoot, Chase, D. Johnson, Kristensen, Shapiro, Smail; Assistant Professors Elliott, Kreutz, D. Perkins, Schapiro, Stern, Viani, Whalen.

Maine Medical Center: Professor Klopp (Chairperson); Clinical Associate Professors C. Clark, Fritz, Riechel, Sewall, Villandry, N. Wilson; Clinical Assistant Professors Hayden, VerLee; Clinical Instructors Hamel, C. Higgins, Siegle.

Clinical Core instruction is confined to intensive, small-group, operating room didactic and practical experience. A one-month elective program for Senior Selective students is available. This time may be spent on intensive respiratory care with the respiratory therapy group. Weekly anesthesia conferences are open to students. The resident training program consists of the appointment of nine residents for two, three, or four years.

Section of Thoracic and Cardiac Surgery

Professor Coffin (Chairperson); Associate Professor Ittleman, Jackson; Assistant Professor Leavitt.

Maine Medical Center: Clinical Professor Drake; Clinical Assistant Professors Donegan, Lutes, Morton, Tryzelaar, White;

The thoracic surgeon is a specialist in disease within the chest who also performs surgery. Our teaching program emphasizes the dynamic interplay of medical sciences and humanities in achieving optimal patient care. Sponsored formal meetings include a weekly combined medical-surgical conference, a daily thoracic X-ray review, monthly Thoracic Surgical Pathology Conferences, Cardiac Pathology Conference, Esophageal Disease Conference, combined conferences with the cardiology and pulmonary units in the Department of Medicine, and cardiac surgery workshops. Formal lectures are kept to a minimum, with preferential teaching on rounds, "spot seminars," and student tutorials. Students participate actively in work-up and presentation of patients in surgery (including open-heart) and in postoperative management.

Diagnostic activities include the more sophisticated assessment of coronary and other heart disease, as well as conventional procedures in thoracic and cardiovascular problems. Techniques in diagnosis and in disease evaluation are under constant research and development. The clinical program includes all phases of thoracic and cardiovascular disease in the Medical Center Hospital of Vermont.

Operative programs include cardiopulmonary by-pass for open-heart surgery and conventional thoracic procedures. Postoperative care involves the required attention to customary problems and, in addition, intensive postoperative management of serious problems, including Special Care Unit.

Experimental and clinical investigative problems relate to open-heart surgery postpump syndromes and postoperative assessment of cardiac and of pulmonary function after surgery. A broad program in coronary surgery, integrated with other departments within the medical school is under development. Summer student fellowships are occasionally available in all programs.

Section of Neurological Surgery

Professor Gross (Chairman); Associate Professors Flanagan, Wald; Assistant Professor Penar.

Maine Medical Center: Clinical Assistant Professor Brinkman, Klein, Mehalic, D. Wilson.

We offer instruction at all undergraduate levels. Our faculty participate in discussions regarding basic mechanisms involving the nervous system. Core surgical students may elect a rotation on neurosurgery and senior majors often choose to spend a month on the service.

A six-year residency is approved for physicians who have had basic surgical and neurological experience.

Our division serves as a regional center for consultation and for graduate medical education.

Section of Ophthalmology

Associate Professors Aitken (Chairperson), Irwin; Clinical Associate Professors Guiduli, Kleh, Assistant Professors Vrabec, R. Millay; Clinical Assistant Professors Chase, Lawlor.

We participate in the Basic Clerkship, in the Clinical Core Program of the Department of Surgery, and in an elective course in the Senior Selective Program. These courses involve interdisciplinary arrangements with other departments and other institutions in the case of the Senior Selective Program, as needed.

Section of Dentistry, Oral, and Maxillofacial Surgery

Clinical Professor Farnham (Chairperson); Clinical Associate Professor Bowen; Clinical Assistant Professors Connolly, Danielson, Levi, Molind, Reed, Watson; Clinical Instructors Boerman, Culver, Kropf, Lampert, Lasaponara, Pane, Purdy, Ratkus, Richardson, Shuman, Toume, Wollensak

We offer lectures on oral medicine, oral pathology, and oral diagnosis to medical students. Demonstration and participation in teaching regional and local anesthesia of the head and neck are made available at the Dental Clinic.

We offer an approved general practice residency in dentistry and participate in house staff education.

Section of Otolaryngology

Associate Professor Sofferman (Chairperson); Assistant Professors DeLozier, Hubbell, D. Millay; Clinical Assistant Professor Stone.

Maine Medical Center: Clinical Associate Professor Knowles; Clinical Assistant Professors Maxwell, Roediger.

We participate in the Basic Clerkship portion of the Basic Science Core.

During the Clinical Science Core, didactic lectures are given as well as two-week clinical clerkship rotations which include experience in the otolaryngology offices as well as surgical and inpatient ward exposure.

Senior students rotate through the Section in programs individualized to their needs.

We offer an approved residency in otolaryngology and participate in the training of house staff from other residency programs.

Our educational program is structured and multifaceted. Four conferences are held on a weekly basis and serve as a central core of the teaching program. A basic science lecture is conducted within the Section and lectures are delivered by attending and resident staff as well as outside guest speakers in related fields. A patient conference presents challenging clinical problems. Hospital walk rounds are conducted once weekly to discuss inpatient problems at the bedside. Several clinical conferences with the Otolaryngology Division of the Hitchcock Clinic at Dartmouth are conducted throughout the year and allow for exchange of diagnostic and treatment concepts. Viewing of pre-taped didactic subject matter is always available to the student and resident. Structured anatomical dissections of the head and neck and temporal bone provide practical exposure to surgical areas.

Section of Pediatric Surgery

Assistant Professor Vane (Chairperson).

Maine Medical Center: Clinical Associate Professor Dibbins; Clinical Assistant Professors Browne, Curci.

We aim to provide optimum surgical care for children in the units of the Medical Center Hospital of Vermont. A consultative service for other departments, practicing physicians, and the State Department of Health has been developed.

Our teaching program complements the general surgical courses with didactic sessions dur-

ing the introduction to the core surgical rotation. Students may take an elective on Pediatric Surgery during their Clinical Core.

Pediatric surgical rounds are made daily on the pediatric floor. The major teaching contact with Clinical Core students is during their Pediatric rotation. Pediatric Surgical Conference is held weekly with multidiscipline discussion of pediatric surgical problems. Students are encouraged to present their own cases and to do brief reviews of the literature.

During the Senior Selective Program, students may take a one-month elective on Pediatric Surgery or do research on pediatric surgical problems.

Section of Plastic and Reconstructive Surgery

Associate Professor Linton (Chairperson); Assistant Professor Leitner; Clinical Assistant Professor Wheeler.

Maine Medical Center: Clinical Associate Professor Waterhouse; Clinical Assistant Professor Labelle.

We participate in the Clinical Core and Basic Clerkship in the areas of wound healing, soft tissue management, and suture technique. Current research includes basic microvascular technique. Two-week electives are offered in basic plastic surgical problems which include office evaluation and hospital care.

Section of Urology

Professor Leadbetter (Chairperson); Associate Professor Morrisseau; Clinical Associate Professor Vinson; Clinical Assistant Professors Jackson, Trotter.

Maine Medical Center: Clinical Associate Professor Iverson; Clinical Assistant Professors Broaddus, Dyhrberg, Pringle, Robinson, Timothy.

Didactic lectures are largely supplemented by tutorial sessions with smaller groups and by having elective time on the Urology Service to work up urological patients and to be involved with treatment and surgery. The lectures and sessions explore the urologic diagnoses and therapy of the various problems involved.

We offer a three-year approved urological residency program with clinical research material gathered from the Urology Service, the teaching hospital, and the College of Medicine.

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Index of Faculty/Emeriti

[Brackets enclose the date of the original appointment]

EMERITI

- John Abajian, Jr., M.D. [1939]. *Professor of Surgery (Anesthesiology)*.
- Sinclair Tousey Allen, Jr., M.D. [1948]. *Professor of Medicine*.
- Ellsworth Lyman Amidon, M.D. [1933]. *Professor of Medicine*.
- Richard Walker Amidon, M.D. [1949]. *Professor of Medicine*.
- Bernard Benjamin Barney, M.D. [1955]. *Associate Professor of Plastic Surgery*.
- John Hardesty Bland, M.D. [1949]. *Professor of Medicine*.
- Dallas Richard Boushey [1937]. *Assistant Professor of Anatomy and Neurobiology*.
- Alfred Hayes Chambers, Ph.D. [1948]. *Professor of Physiology*.
- Raymond Madiford Peardon Donaghy, M.D. [1946]. *Professor of Neurosurgery*.
- Fred William Dunihue, Ph.D. [1936]. *Professor of Anatomy*.
- Herbert Ashley Durfee, M.D. [1957]. *Professor of Obstetrics and Gynecology*.
- Oliver Rolfe Eastman, M.D. [1948]. *Associate Professor of Obstetrics and Gynecology*.
- Ben Ralph Forsyth, M.D. [1966]. *Professor of Medicine and Microbiology & Molecular Genetics*.
- Fred W. Gallagher, Ph.D. [1944]. *Professor of Microbiology*.
- Joseph Gans, Ph.D. [1967]. *Professor of Pharmacology*.
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- Robert James McKay, M.D. [1950]. *Professor of Pediatrics*.
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- William A. Woodruff, L.M.C.C. [1962]. *Associate Professor of Psychiatry*.
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- James Charles Bigelow [1987]. B.S., 1979, *University of Illinois; Ph.D., 1985, Indiana University. Research Assistant Professor of Pharmacology.*
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- Edward Molette Blanchard [1983]. B.A., 1975, *Wake Forest University; Ph.D., 1983, University of Cincinnati. Research Assistant Professor of Physiology and Biophysics.*
- Stephen Blattner [1982]. A.B., 1971, *Cornell University; M.S., 1975; M.D., 1977, State University of New York at Buffalo. Clinical Assistant Professor of Pediatrics.*
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- Joseph S. Blinick [1981]. B.S., 1962, *College of William and Mary; Ph.D., 1971, Brown University. Clinical Associate Professor of Radiology.*
- David Lee Boedy [1979]. B.A., 1972, *Wartburg College; M.S.W., 1974, Washington University. Clinical Assistant Professor of Psychiatry.*
- Paul Gregory Boerman [1989]. B.S., 1980, *Calvin College; D.D.S., 1984, University of Detroit. Clinical Instructor of Surgery.*

- George Edward Bokinsky [1984]. B.A., 1966, Washington and Lee University; M.D., 1970, Medical College of Virginia. Associate Professor of Medicine.
- Bartholomew Joseph Bonazinga [1984]. B.S., 1972, Union College; M.D., 1976, State University of New York at New York. Clinical Instructor of Medicine.
- Donald McEwan Booth [1982]. M.D., 1966, Thomas Jefferson University. Clinical Assistant Professor of Orthopaedics and Rehabilitation.
- John Arthur Boothby [1981]. A.B., 1962; M.D., 1966, Cornell University. Clinical Assistant Professor of Neurology.
- Linda Suzan Borman [1982]. B.S., 1971, State University of New York at Stony Brook; Ph.D., 1978, University of Tennessee at Oak Ridge. Research Assistant Professor of Pharmacology.
- Joel Lee Botler [1984]. B.A., 1975, Princeton University; M.D., 1979, State University of New York at Downstate Medical Center. Clinical Assistant Professor of Medicine.
- Richard Emile Bouchard [1955]. M.D., 1949; M.S., 1951, University of Vermont. Professor of Medicine. Professor of Family Practice.
- Louis Gregory Bove [1981]. A.B., 1948, Bowdoin College; M.D., 1952, Cornell University. Clinical Associate Professor of Medicine.
- Edwin Gladstone Bovill [1982]. A.B., 1968, Dartmouth College; M.D., 1972, University of California. Associate Professor of Pathology.
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- Carol P. Walters [1972]. A.B., 1963, Albion College; Ph.D., 1972, University of Vermont. Research Associate Professor of Pediatrics. Research Associate Professor of Pathology.
- Candace Cooper Walworth [1984]. B.A., 1966, Smith College; M.D., 1970, Columbia University. Clinical Assistant Professor of Medicine.
- Carol Rebecca Ward [1990]. B.A., 1973; M.D., 1977, Case Western Reserve University. Clinical Instructor of Obstetrics and Gynecology.

- Norman Stewart Ward [1987]. B.A., 1977, *University of Rhode Island*; M.D., 1981, *Brown University*. Assistant Professor of Family Practice.
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- Susan Linen Warner [1985]. B.A., 1977, *Hampshire College*; M.D., 1981, *Stanford University*. Assistant Professor of Medicine.
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- Richard Charles Wasserman [1983]. B.A., 1971, *Williams College*; M.D., 1976, *Jefferson Medical College*; M.P.H., 1982, *University of Washington*. Associate Professor of Pediatrics.
- Robert Bruce Waterhouse [1982]. B.S., 1967, *Middlebury College*; M.D., 1971, *Thomas Jefferson University*. Clinical Associate Professor of Surgery.
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- Stuart English Williams [1980]. B.A., 1972, *Hamilton College*; M.D., 1975, *Albert Einstein College of Medicine*. Clinical Assistant Professor of Family Practice.
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- Norman Edward Wilson [1983]. B.A., 1965, *Brandeis University*; M.D., 1971, *Thomas Jefferson University*. Clinical Associate Professor of Surgery.
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- Pass, Adam Bennett, B.A., *Williams College; Brooklyn, NY; St. Vincent's Medical Center, Bridgeport, CT*
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- Pinn, Elke, *Dipl.-Ing. agr., Georg-August-Universitaet Goettingen; Dinslaken, West Germany; Medical Center Hospital of Vermont, Burlington, VT*
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- Roaf, Victoria Lee, B.A., *Wellesley College; Hamilton, MA; University Health Center of Pittsburgh, Pittsburgh, PA*
- Ryan, Sheila Ellen, B.A., *Colby College; Walpole, MA; Tripler Army Medical Center, Honolulu, HI*
- Schmitt, Charles Joseph, B.A., *Middlebury College; Shelburne, VT*
- Sears, John Joseph, A.B., *Cornell University; South Hadley, MA; University of Connecticut, Farmington, CT*
- Sengstaken, Elizabeth Ann, B.A., *University of Rochester; B.S.N., Catholic University of America; Needham, MA; Maine Medical Center, Portland, ME*
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- Smith, Richard Vance, B.A., *Middlebury College; Ridgefield, CT; Georgetown University Hospital, Washington, DC*
- Traina, Tad Greene, B.A., *University of Rochester; Montrose, NY; Childrens Hospital of Los Angeles, Los Angeles, CA*
- Tsao, Lana, B.A., *Wellesley College; Cumberland Foreside, ME; University Health Center of Pittsburgh, Pittsburgh, PA*
- Valent, Scott Richard, B.A., *University of Vermont; Old Brookville, NY; University of Arizona Affiliated Hospitals; Tucson, AZ*
- Walshe, Christopher Joseph, B.S., *State University of New York, Stony Brook; M.A., New York University; Kings Park, NY; Tripler Army Medical Center, Honolulu, HI*
- Waskowitz, Robert Samuel, B.A., *Amherst College; Kensington, CT; University Health Center of Pittsburgh, Pittsburgh, PA*
- Wolf, Heidi, A.B., *Colgate University; Tarrytown, NY; Maine Medical Center, Portland, ME*
- Yu, York-Sung, B.S., *Cornell University; East Norwich, NY; New York Hospital, New York, NY*
- Zapson, Daniel Scott, B.A., *University of Pennsylvania; M.S., State University of New York at Buffalo; Long Beach, NY; Maine Medical Center, Portland, ME*

Class of 1991

(With undergraduate college and home address.)

- Adelman, Scott, A.B., *Bowdoin College*; Mars Hill, ME
- Alley, John Adams, B.A., *University of Rochester*; Geneseo, NY
- Asnis, Lisa Audrey, A.B., *Smith College*; New York, NY
- Aveni, Maria Christine, A.B., *Harvard University*; Watertown, MA
- Baker, Peter Christensen, B.A., *Bucknell University*; Darien, CT
- Barnard, Diana Lynn, B.Sc., *McGill University*; Waitsfield, VT
- Beck, Barbara Jo, A.B., *University of Illinois*; M.S., *Pace University*, New York Medical College; Kingston, NH
- Belko, Amy Zyra, B.S., *University of Wisconsin-River Falls*; M.S., Ph.D., *Cornell University*; San Francisco, CA
- Bellafiore, Peter Joseph, A.B., *Boston College*; East Greenwich, RI
- Bergwall, Anne Parker, B.A., *University of Maine at Orono*; Falmouth, ME
- Briggs, Stephanie, B.S., *Stanford University*; Sacramento, CA
- Buehring, Lisa Marie, B.A., *University of California*, Los Angeles; Agoura, CA
- Bulley, David Alexis, B.A., *University of Vermont*; Burlington, VT
- Canin, Jill Elizabeth, B.S., *University of Rochester*; Hauppauge, NY
- Cascione, Mark Charles, A.B., *College of the Holy Cross*; Jackson, NJ
- Deibler, Susan Mary, B.A., *State University College-Potsdam*; Williamson, NY
- Dewey, John, B.A., *Carleton College*; Worcester, MA
- Dill, Barbara Angelika, A.B., *Colgate University*; New City, NY
- Drew, Simon Paul, B.S., *Union College*; Kirkwood, NY
- Eastman-Gallo, Dawna Lynn, A.B., *Colby College*; Hudson, MA
- Fehrmann, Catherine Suzanne, A.B., *Brown University*; New York, NY
- Finnell, John Thomas II, B.S., *University of Vermont*; Colchester, NY
- Garahan, Margaret Bunce, B.S., M.S., *University of Wisconsin-Madison*; South Burlington, VT
- Goering, Ann, B.A., *University of Vermont*; Winooski, VT
- Goldberg, Charles Gordon, B.A., *Amherst College*; Great Neck, NY
- Goldsby, Robert Edward, B.A., *University of California, Berkeley*; M.S., *Georgetown University*; Berkeley, CA
- Green, Douglas Erwin, A.B., *Dartmouth College*; Warren, VT
- Harkins, Mary Keith, B.A., *Wesleyan University*; Burlington, VT
- Hepler, Sharon Marie, A.B., *Smith College*; Orono, ME
- Hession, Eileen Mary, B.S., *Trinity College (CT)*; Dedham, MA
- Hikel, Katharine Mary, A.B., *Radcliffe College*; Orono, ME
- Hill, Scot Blackstone, B.A., *University of Vermont*; Burlington, VT
- Hopson, Lila Primrose, A.B., *Colby College*; Stratton, ME
- Joy, Robert Arthur, B.S., *Massachusetts Institute of Technology*; West Hartford, CT
- Kelley, Linda Carradine, A.B., *Cornell University*; Richmond, VT
- Koller, Stephen Mark, B.A., *University of Virginia*; West Hempstead, NY
- Koobatian, Thomas John, B.S., M.S., *Tufts University*; Worcester, MA
- LaVopa, Louis Vincent, A.B., *College of the Holy Cross*; Portland, ME
- Lawson, Jeffrey Harold, B.S., *University of Iowa*; Mt. Prospect, IL
- Legere, Paula Jean, B.S., *Fairfield University*; Stamford, ME
- Leondires, Mark Peter, A.B., *Colby College*; Danvers, MA
- Libby, Curtis MacKay, A.B., *Bowdoin College*; Cape Elizabeth, ME
- Linder, Moss Jacob, B.A., *Wesleyan University*; M.A., *University of Texas Medical Branch at Galveston*; New London, CT
- Lord, Kelly Lynn, B.S., *University of Vermont*; Colchester, VT
- Mason, Stephen Bradley, B.S., *Cornell University*, South Burlington, VT
- McDaniel, Holly Louise, B.A., *The Johns Hopkins University*; Orono, ME
- McGrath, Paul David, A.B., *Cornell University*; Contoocock, NH
- McIntyre, John Joseph IV, B.A., *Wesleyan University*; White Plains, NY
- McQueen, Kathryn Ann Kelly, B.A., *The Colorado College*; Littleton, CO
- Montemale, Mary Ann Lucy, B.A., *University of Rochester*; Rochester, NY
- Nelson, Theodora Jeanne, A.B., *Stanford University*; La Jolla, CA
- Nishiyama, Stephen Takeo, A.B., *University of Michigan*; B.S., *University of Southern Maine*; Falmouth, ME
- O'Sullivan, Kimberley Lloyd, B.A., *Middlebury College*; Wellesley, MA
- Passman, Marc Adam, A.B., *Bowdoin College*; West Hartford, CT
- Peel, David Harris, B.S., *University of Vermont*; Danby, VT
- Poutre, Timothy Mark, B.A., *Colby College*; Newport, VT
- Powers, James Brian, B.S., *University of Lowell*; Boston, MA
- Quinn, Christopher Martyn, B.A., *University of Notre Dame*; Bangor, ME
- Reynolds, Jay Matthew, B.A., *The Johns Hopkins University*; Ft. Fairfield, ME
- Reynolds, John Russell Jr., B.S., *Boston College*; Greenville, RI
- Russell, Richard John, B.S., B.A., *University of Colorado*; Boulder, CO
- Salem, Charles Henry, B.A., *Yale University*; Bennington, VT
- Savo, Anthony Michael, B.A., *Yale University*; South Burlington, VT
- Schogel, Karen Cheney, B.A., *Ithaca College*; Saco, ME
- Silverman, John Andrew, B.A., *Middlebury College*; Stamford, CT
- Spaight, Deborah Ann, A.B., *Brown University*; Barrington, RI

Sprague, Kellie Ann, A.B., *St. Anselm College; Grand Lake Stream, ME*

Starr, Geoffrey Edward, B.S., *St. Michael's College; Newport, VT*

Stern, Alan Kevin, A.B., *Brown University; Needham, MA*

Swanson, Holly, A.B., *Colby College; Brunswick, ME*

Tester, Patrick William, B.S., *University of California, Los Angeles; Corona del Mar, CA*

Tirabasso, Victor Justin, B.A., *University of Colorado; Rye Brook, NY*

Trabulsy, Mario Estrin, B.A., *University of Vermont; East Montpelier, VT*

Trevisani, Gino Thomas, B.A., *University of Rochester; Clinton, NY*

Tubbs, Warren Scott, B.A., *Stanford University; Spokane, WA*

Walker, Gregory Allen, B.S., *University of Vermont; Newport, VT*

Wark, Heather Lynne, A.B., *Bowdoin College; Charlotte, VT*

Waterman, Jane Lynn, *Johnson State College; Wolcott, VT*

Weinmann, Christopher Mark, A.B., *Brown University; West Long Branch, NJ*

Welch, Catherine Anne, A.B., *Dartmouth College; San Diego, CA*

Welch, George Nicholas, B.A., *Williams College; Duxbury, MA*

Welch, Judy Lynn, B.A., *University of Maine at Orono; Farmington, ME*

Wilczynski, Denise Courtemanche, B.A., *University of Vermont; Winooski, VT*

Wingfield, Roberta Kauffmann, B.A., *University of Washington; Menlo Park, CA*

Yeatts-Peterson, Mary Ann, B.S., *State University of New York, Binghamton; M.S., University of Vermont; Richmond, VT*

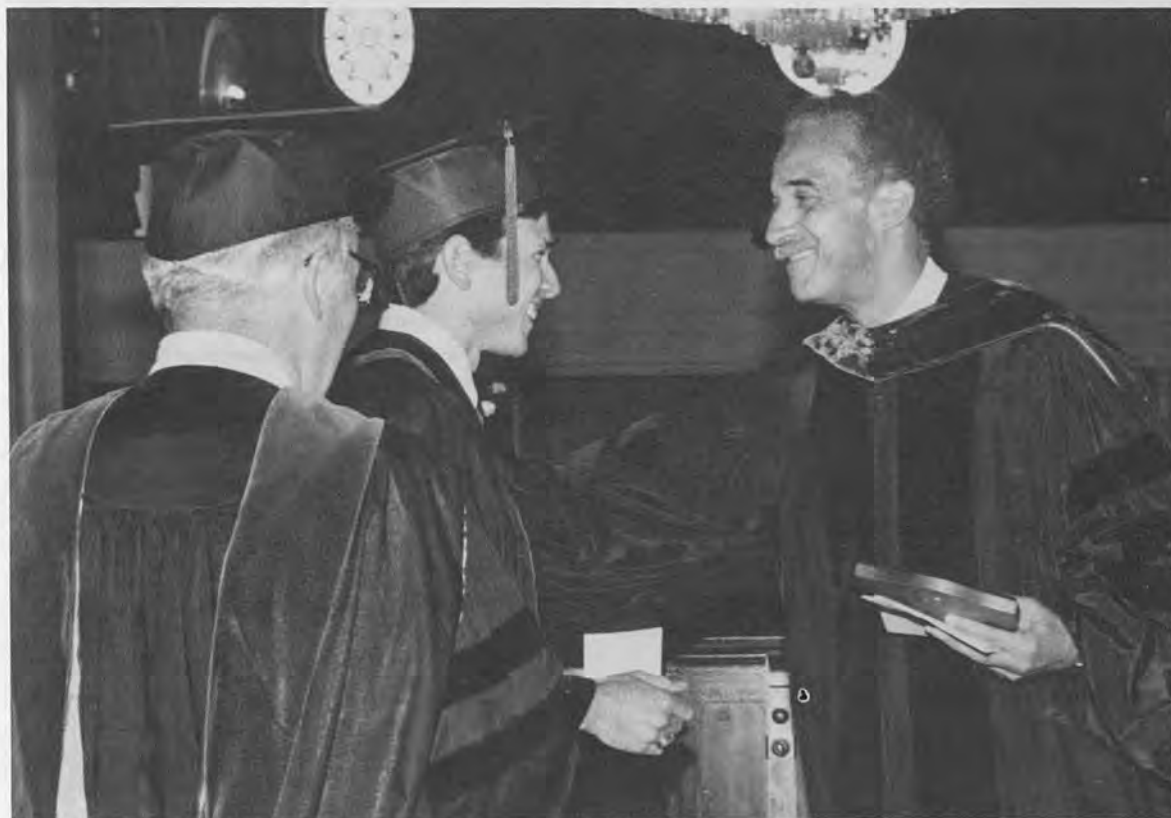
Zacks, Michael Peter, A.B., *Harvard University; Providence, RI*

Class of 1992

(With undergraduate college and home address.)

- Abate, Michael Jon, B.A., *University of California, Davis; Napa, CA*
- Afek, Paul, B.A., *City College of the City University of New York; Burlington, VT*
- Ahn, Eliza S., B.S., *State University of New York at Binghamton; New York, NY*
- Albertini, John Joseph, B.A., *University of Vermont; Underhill Center, VT*
- Alnajjar, Haif Behnam, B.S., *University of Michigan, Ann Arbor; West Bloomfield, MI*
- Annar, Lorraine Elizabeth, B.S., B.S., *University of Pennsylvania; Commack, NY*
- Ascanio, Robert Sebastian, B.A., *University of Maine at Orono; Falmouth, ME*
- Babbitt, Joseph Anthony, B.A., *Yale University; Reseda, CA*
- Baker, Richard Domina, B.A., *McGill University; Burlington, VT*
- Barrett, David Allen, B.A., *University of Pennsylvania; NY, NY*
- Beer, Cecilia Victoria, B.S., *Cornell Univ.; Eastchester, NY*
- Betterton, Gillian Margaret, B.S., *University of Michigan; Somerville, MA*
- Bicknell, Timothy Donald, A.B., *Dartmouth College; Ferrisburg, VT*
- Bisson, Linda Claire, B.A., *University of Vermont; Winooski, VT*
- Blotnick, Charles Adam, B.S., *Union College; Needham, MA*
- Boulanger, Linda Lucy, B.A., *University of Vermont; Orleans, VT*
- Brown, Richard Dexter, A.B., *Kenyon College; Wayland, MA*
- Brunelle, David Charles, A.B., *Dartmouth College; Leland, MA*
- Carey, Peggy, B.A., *Bates College; Brattleboro, VT*
- Cody, Rayden Chandler, B.S., *University of Vermont; Montpelier, VT*
- Coflesky, Janice Teresa, B.A., M.S., Ph.D., *University of Vermont; Burlington, VT*
- Cole, Anne Johnston, B.S., *Bates College; Portland, ME*
- Cooley, Elizabeth Ellen, A.B., *Harvard University; Burlington, VT*
- Craig, William Alexander Paul, B.A., *University of California, Santa Cruz; Ripton, VT*
- Curran, Robert Winn, B.A., *Middlebury College; Ridgewood, NJ*
- Dalpe, Joanne Linda, B.A., *Mount Holyoke College; Derby, VT*
- Dittrich, Karl Paul, B.A., *University of Vermont; Burlington, VT*
- Dotson, Eric David, B.A., *University of Vermont; Poultney, VT*
- Elami, Bahram, B.S.E., *University of Michigan, Ann Arbor, B.S., Michigan State University; East Lansing, MI*
- Ellowitz, Andrew Scott, B.S., *State University of New York at Brockport; Loudonville, NY*
- Farwell, Mary Elizabeth, B.A., *University of Virginia; Lake Forest, IL*
- Ferrera, Peter Charles, A.B., *Cornell University; Howard Beach, NY*
- Fitzgerald, Joseph Robert, B.A., *University of Vermont; Winooski, VT*
- Gemery, John Malcolm, B.A., *Wesleyan University; Oakland, ME*
- Gray, Kelly Rae, B.S., *Iowa State University of Science and Technology; Woolwich, ME*
- Guirguis, Lisa Marie, B.S., *Loyola Marymount University; Pasadena, CA*
- Hagstrom, Nathan, *University of Vermont; Brattleboro, VT*
- Hamel, Mary Jean, A.B., *Occidental College; San Jose, CA*
- Hawkins, Nanci Lynn, A.B., *Cornell University; Amsterdam, NY*
- Holmes, David Michael, A.B., *Stanford University; Mountain View, CA*
- Holmes, Lucy Chue-yin Hung, A.B., B.S., *Stanford University; Mountain View, CA*
- Huber, Bryan Matthew, B.S., *Bucknell University; Lancaster, PA*
- Jay, Shirlene, B.A., *University of California, San Diego; LaJolla, CA*
- Julian, John Nicholas, B.A., *Oberlin College, M.S., Pennsylvania State University; Morristown, VT*
- Kruger, Robert Melvin, A.S., *Fulton-Montgomery Community College, B.A., State University of New York-Plattsburg, M.P.A., Golden Gate University, M.S., University of Vermont; South Burlington, VT*
- Kuehne, Jonathan Peter, A.B., *Cornell University; Wayland, NY*
- LaCroix, Dale Jeanne, B.S., *University of Vermont, Essex Jct., VT*
- Ladd, Marilyn Grant, A.S., *Catherine Laboure Junior College; Norwich, VT*
- Lafavore, Paul Richard, A.B., *College of the Holy Cross; Portland, ME*
- Larson, Heidi Mae, B.A., *University of California, San Diego; Torrance, CA*
- Lawrence, Yolanda Glogowski, B.S., *University of Vermont; Springfield, VT*
- Lee, Claudia Esther, A.B., *Dartmouth College; Stamford, CT*
- Lemons, Robert Walter, B.S., *Stanford University; Anaheim, CA*
- Luring, Elena Luisa, B.A., *University of Chicago; Saxtons River, VT*
- McBride, Whitney James, A.B., *St. Michael's College; Burlington, VT*
- McCarter, Martin DeVroe, A.B., *Dartmouth College; Carlisle, MA*
- McPherson, Rebecca Jane, A.A.S., *Westbrook College, B.A., University of New Hampshire; York, ME*
- McQuillen, Kemedey Kathryn, A.B., *Bowdoin College; Shelburne, VT*
- Meloni, Stephen Joseph, B.S., *Boston College; Pittsford, NY*

- Meltzer, Susan Elizabeth, A.B., *Columbia University; Albertson, NY*
- Moore, Susan Elaine, A.B., *Goucher College; Williston, VT*
- Mulcahy, Carolyn Marie, B.S., *Providence College; Brighton, MA*
- Nelson, David Gary, B.S., *Colorado State University; York Harbor, ME*
- Nepveu, Laura, B.A., *Reed College; Morrisville, VT*
- Norris, Laura Mary, B.A., *Middlebury College; Dorset, VT*
- O'Donnell, Stephen Edward, B.S., *State University of New York, Binghamton; Bronx, NY*
- Papadakis, Gust, B.A., *University of California, Berkeley; Burlingame, CA*
- Pasanen, Mark Eliot, Sc.B., *Brown University; North Andover, MA*
- Podolnick, Jennifer Ruth, B.A., *State University of New York, Potsdam; M.B.A., University of Hawaii at Manoa; Stony Brook, NY*
- Polk, Donna Marie, A.B., *Washington University; Hunter, NY*
- Pomerantz, David Arthur, B.A., *University of California, Berkeley; Encino, CA*
- Rapaport, Michael Edwin, A.B., *Kenyon College; Hastings-On-Hudson, NY*
- Ray, Katherine Louise, B.A., *University of Notre Dame; Falmouth, ME*
- Roaf, Elizabeth Alexandra, B.S., *Tufts University; Beverly, MA*
- Rodrigue, Stephen Wilfred, B.A., *St. Anselm College; Jefferson, ME*
- Rowley, Patrick Joseph, B.A., *University of Notre Dame; Auburn, NY*
- Roy-Clark, Brenda Marie, B.A., *University of Maine at Fort Kent; Fort Kent, ME*
- Russell, Gregory David, B.S., *University of Vermont; Burlington, VT*
- Saulitis, Mara Veronika, A.B., *Cornell University; Silver Creek, NY*
- Sawyer, Attilia Marie, B.A., *Skidmore College; Barre, VT*
- Sequeira, Patricia Maria, B.S., *Fordham University; Elmhurst, NY*
- Shang, Allan Bruce, B.S., *Duke University, M.S.E., University of Pennsylvania; Apalachin, NY*
- Sheporaitis, Lori Ann, B.A., *University of Vermont; Essex Junction, VT*
- Sibell, David Matthew, B.A., *University of Virginia; Manhasset, NY*
- Singer, Michael Barry, B.A., *State University of New York at Binghamton; Baldwin, NY*
- Spanknebel, Kathryn Ann, B.A., *University of Vermont; Sterling, MA*
- Thurlow, Jeffrey Paul, B.H.S., *Duke University; Scarborough, ME*
- Tyl, Rosemary, B.A., *University of Connecticut, M.A., Goddard; Shelburne, VT*
- Vajihuddin, Taher Hashim, B.A., *University of California, Berkeley; Oakland, CA*
- Vial, Catalina Margarita, B.S., *University of Vermont; Camden, ME*
- Weston, Catherine Chatal, B.S., *Seattle University; Seattle, WA*
- Wilson, Sarah Usher, B.A., *Brown University; Middlesex, VT*
- Woodson, Jennifer Woyke, B.S., *Wheaton College; Essex Junction, VT*



Class of 1993

(With undergraduate college and home address.)

- Ariue, Barbara Kyoko, *B.A., Pomona College; Monterey Park, CA*
 Assemi, Shahrokh; *B.A., B.S., M.S., University of California, San Diego; Tehran, Iran*
 Atkin, Christina Gay, *A.B., Boston University; M.A. Goddard College; Philadelphia, PA*
 Atkinson, Jennie Mariah, *A.A., American College in Paris; B.S., Boston University; Pacifica, CA*
 Baciocco, John Anthony, *B.S. University of California, San Diego; Atherton, CA*
 Bates, Barbara Ayers, *B.A., University of Vermont; Binghamton, NY*
 Belanger, Michael James, *B.S.EE, University of Vermont; Glastonbury, CT*
 Benson, Jean Strom, *B.S., University of Maryland; M.ED, University of Georgia; Bangor, ME*
 Berge, Fred Jay, *B.A., State University of New York at Binghamton; Plainview, NY*
 Bradley, Russell Stuart Orlando, *B.A., University of Vermont; Burlington, VT*
 Buchika, Samantha Ann; *B.S., University of New Hampshire; Atkinson, NH*
 Camp, Phillip Cabot Jr.; *B.A., University of Vermont; Woodstock, VT*
 Caron, Jeffrey Scott, *B.S. Bates College; Knox, ME*
 Cloherty, Timothy Patrick, *B.S., University of California, Irvine; Temple City, CA*
 Conway, Matthew, *B.A., Earlham College; South Burlington, VT*
 Coppola, David John, *B.S., University of Rochester; Auburn, NY*
 Dantzig, Sondra Beth, *B.A., Hampshire College; Hartsdale, NY*
 Davis, Deborah Sue, *B.S. Trinity College CT; Worton, MD*
 DeMatteo, Mark Peter, *A.B., Saint Michael's College; P.A., Yale University School of Medicine; Schenectady, NY*
 Dubie, Elizabeth Kay, *B.A., Smith College; Belvidere, NJ*
 Elliott, Suzanne Kingston, *B.S., University of Vermont; Milton, VT*
 Evelti, David Joseph, *B.A., University of Vermont; Burlington, VT*
 Fehnel, David Jeffrey, *B.S., Bucknell University; Montclair, NJ*
 Freire, Beth Anne, *B.S., Union College; Huntington Station, NY*
 Garriss, Janie Beth, *B.S., University of Maine; Augusta, ME*
 Geoffrion, Cheryl Anne, *B.A., Mount Holyoke College; Chicopee, MA*
 Goodrick, Gabrielle Julie, *B.Sc. McGill University; Severna Park, MD*
 Gosselin, Leo Joseph Jr., *B.A., University of Vermont; Newport, VT*
 Greenstein, Gary David, *B.A., Brandeis University; Lynnfield, MA*
 Gruder, Susan Helen, *B.A., University of California, Berkeley; Redondo Beach, CA*
 Hickey, John Charles, *B.S., Rutgers University; Hazlet, NJ*
 Hightower, Stephen Anthony, *B.S., University of California, Santa Barbara, CA*
 Howe, Jean Elizabeth, *B.A., Williams College; Stamford, VT*
 Iriana, Sarah Mary Jacqueline, *B.S., Gordon College; New York, NY*
 Jaynes, Scott Christopher, *A.B., Dartmouth College; Woodstock, VT*
 Kaplan, Bruce David, *B.S., University of California, Los Angeles; San Francisco, CA*
 Karod, John Walter, *B.S., University of Maine; Camden, ME*
 Kim, Doris Miwon, *A.B., Brown University; Coventry, RI*
 Klein, Dennis Frederick, *A.B., Bowdoin College; Danariscotta, ME*
 Knab, John Hunter, *B.A., Middlebury College; Hingham, MA*
 Koelbel, Stephen Francis, *B.S., Union College; Scotia, NY*
 Kunin, Adam William, *B.A., Columbia College; Shelburne, VT*
 LaDuke, Jami Marie, *B.S., Saint Lawrence University; Watertown, NY*
 Lali, M. David, *B.Sc., University of Capetown; M.A., Wesleyan University; Nyanga, South Africa*
 Lanoue, Mark Zak, *B.S., University of Vermont; Jacksonville, VT*
 Lawes, Karen Leigh, *A.B., Colby College; M.S., University of Vermont; Burlington, VT*
 Leavitt, Julie L., *A.B., Colby College; Waterboro, ME*
 Levine, Benjamin Parker, *B.A., Princeton University; Colts Neck, NJ*
 Longcope, David Coffin, *A.B., Colby College; Northboro, MA*
 Martinez, Ingrid Lynett, *B.S., University of California, Los Angeles; LaPuente, CA*
 Matthias, Weeza, *B.S., University of Vermont; Burlington, VT*
 McGrath John Joseph, *B.S., Stonehill College; Raynham, MA*
 McHugh, Pauline Frances, *B.A., Johns Hopkins University; Burlington, VT*
 McLeod, Randi James, *B.S., University of New Hampshire; Wiscasset, ME*
 McNichol, Jennifer Susan, *Sc.B., Brown University; Essex Junction, VT*
 Morris, Gabrielle, *B.S., University of Maryland; South Burlington, VT*
 Mueller, Veronica Josephine, *B.A., Gettysburg College; M.S., Duke University; Madison, NJ*
 Murray, Amy, *B.S., Cornell University; Mexico, NY*
 Nashed, Zaki, *A.B., Colby College; Newark, DE*

- Nasrallah, Eli, A.B., *Cornell University; Essex Junction, VT*
- Nicoli, Daniel George, B.S., *Union College; Leeds, MA*
- Njegovan, Mary Elizabeth, B.A., *University of Washington
Bremerton, WA*
- Noble, Sarah Elizabeth, A.B., *Brown University; Lincoln, RI*
- Northrup, Christine Dee, B.S., *University of Vermont;
Burlington, VT*
- O'Kane, John William Jr., A.B., *Dartmouth College; Essex
Junction, VT*
- Paulding, Timothy Ross, B.S., *Houghton College; Cumberland,
ME*
- Peredy, Tamas Robert, B.S., *University of Vermont; Burlington,
VT*
- Pilcher, Christopher David, A.B., *Harvard University; Colchester,
VT*
- Plavin, Stanford Ross, B.Sc., *McGill University; Beverly, MA*
- Rankin, Brett Steven, A.B., *Colby College; York, ME*
- Richardson, David Christopher, B.S., *University of Vermont;
Barre, VT*
- Ritchie, Jeannine Kathryn, B.A., *Johns Hopkins University;
Douglaston, NY*
- Rogers, Stacey Jean, B.S., *Muhlenberg College; M.S., Columbia
University; Medford, MA*
- Rogoff, Helaine Fannie, B.A., *State University of New York at
Binghamton; Smithtown, NY*
- Romeyn, Peter Starratt, A.B., *Dartmouth College; Montpelier, VT*
- Rousseau, Lynn Ann, B.S., *University of Vermont; Winooski, VT*
- Severance, Vicci Lee, B.S., *University of Vermont; Colchester, VT*
- Shapiro, Leslie Beth, B.S., *Union College; Scarsdale, NY*
- Shapiro, Steven Lawrence, B.A., *University of Vermont;
Rockaway, NJ*
- Sidman, Marcie Lee, B.S., *Yale University; Beverly, MA*
- Smith, Gladys Mae, B.S., *University of Maine; Scarborough, ME*
- Suppan, Thomas, B.S., *University of Vermont; Burlington, VT*
- Surgenor, Stephen David, A.B., *Bowdoin College; Carlisle, MA*
- Taplin, Joanne Haviland, A.B., *Dartmouth College; Rowley, MA*
- Thanassi, Mark, B.A., *Yale University; South Burlington, VT*
- Thomas, Lisa Ruanne, A.B., *Dartmouth College; Rutland, VT*
- Thurston, Duska Joy, B.A., *University of Southern Maine; Bangor
ME*
- Trask, Ann Louise, B.A., *University of Maine; Brewer, ME*
- Traynor, Owen Thomas, B.A., *Adelphi University; Seaford, NY*
- Treat, Stephen Adrus, B.S., *University of North Carolina, Chapel
Hill; Manchester Center, VT*
- Tsao, Kailenn, B.A., *Oberlin College; Yarmouth, ME*
- Vargas, Sara Oakes, A.B., *Harvard University; Rutland, VT*
- Verrill, Alan David, B.S., *Atlantic Union College; West Paris, ME*
- Vijups, Mara Vija, B.S., M.A., *University of Connecticut; Milton,
VT*
- Watson, Richard Bradford, B.S., *Saint Lawrence University;
South Burlington, VT*
- Wein, Theodore Herbert, D.C.S., *Vanier College; B.Sc., McGill
University; Montreal, Quebec*
- Wellins, Christopher Avery, B.S., *Duke University; Boston, MA*
- Winters, George Ross III, A.B., *Cornell University; Beavercreek,
OH*
- Wolff, Kirsten, B.S., *United States Merchant Marine Academy;
Williston, VT*
- Wu, Gene Wenchieh, B.S., *State University of New York at
Binghamton; Flushing, NY*
- Wu, Mona Shiao-Chiu, B.S., *Cornell University; Manlius, NY*

Class of 1994

(With undergraduate college and home address.)

- Abadi, Christopher Ardeschir, *B.S., Boston College; St. Johnsbury, VT*
- Adams, Albert William, *B.S., Pacific Lutheran University; Deland, FL*
- Altwater, Harold Leroy, *B.S., State University of New York at Albany; Zanesville, OH*
- Andree, Steven Ronald, *B.S., Worcester Polytechnic Institute; New York, NY*
- Apkon, Susan Debra, *B.S., M.A., Northwestern University; Framingham, MA*
- Archer, Lauren Patrice, *B.A., University of Vermont; Essex, VT*
- Armstrong, James Haldeman, *A.B., Princeton University; Kalispell, MT*
- Atkins, Thomas Allen, *B.S., Duke University; Shelburne, VT*
- Backer, Amy Martha, *B.S., University of Maine; Kenduskeag, ME*
- Bauer, Elizabeth Katherine, *A.B., Dartmouth College; Middlebury, VT*
- Berg, Karin Diane, *B.A., M.S., California State University Northridge; Santa Monica, CA*
- Bergeron, Paul Philip, *A.B., College of the Holy Cross; Methuen, MA*
- Bergner, Kim Allison, *A.B., Cornell University; Burlington, VT*
- Bolles, Thomas Mayo, *B.A., Boston University; Gorham, ME*
- Bouchard, Patricia Elizabeth, *B.S., University of Vermont; Richmond, VT*
- Bowers, Deborah, *B.S.N., Georgetown University; Burlington, VT*
- Bowlby, Adair Marie, *A.B., Colby College; East Corinth, ME*
- Britt, Lisa Ann, *A.B., College of the Holy Cross; Winchester, MA*
- Brown, Peter Brill, *B.A., Kenyon College; New York, NY*
- Chandrasekhar, Chittaranjan Banavara, *B.A., Boston University; Bridgewater, MA*
- Clark, Brian Mullin, *A.B., Colby College; Glen Ellyn, IL*
- Daughton, Kelley Louise, *B.A., University of Nebraska; Omaha, NE*
- Degrinney, Joseph Timothy, *B.A., University of Notre Dame; Scarborough, ME*
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THE OATH OF HIPPOCRATES

I solemnly pledge myself to consecrate my life to the service of humanity.

I will give to my teachers the respect and gratitude which is their due;

I will practice my profession with conscience and dignity;

The health of my patient will be my first consideration;

I will respect the secrets which are confided to me;

I will maintain by all the means in my power, the honor and the noble traditions of the medical profession;

My colleagues will be my brothers and sisters;

I will not permit considerations of religion, nationality, race, party politics or social standing to intervene between my duty and my patient;

I will maintain the utmost respect for human life; even under threat. I will not use my knowledge contrary to the laws of humanity.

I make these promises solemnly, freely and upon my honor.

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